Bead 2701

Date : Mon Oct 17 13:30:02 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels
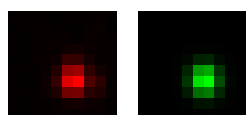
Coordinates : 122 um (x), -89.1 um (y), 60.0 um (z)
Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	447 nm	462 nm	223 nm
max	485 nm	501 nm	223 nm
z	1.52 um	1.53 um	885 nm
Asymmetry	0.922		
Theta	-86.1°		

XY profile & fitting parameters :

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

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

$R^2 = 0.984$

Parameters:
A = 1736.881   (brightness)
B = 124.275   (background)
a = 0.671 px
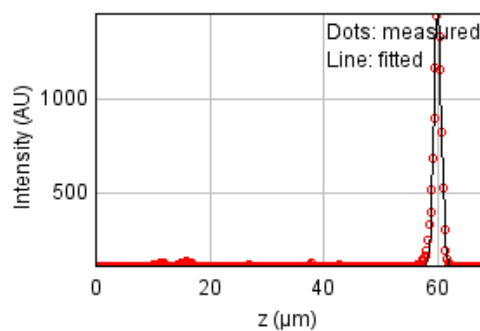b = -0.007 px
c = 0.571 px

xc = 5.588 px
yc = 5.863 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 98798.0205
Standard deviation: 17.93928
R^2: 0.98920
Parameters:
a = 114.32202
b = 1456.70110
c = 59.99575
d = 0.64531

Bead 2702

Date : Mon Oct 17 13:30:02 PDT 2022
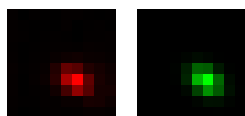Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 163 um (x), -91.1 um (y), 60.0 um (z)
Corresponding bead : Not found

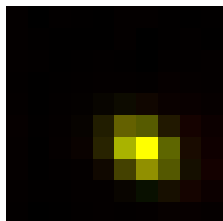| FWHM	Non corrected	Corrected	Theoretical
min	375 nm	388 nm	223 nm
max	521 nm	539 nm	223 nm
z	2.99 um	3.0 um	885 nm
Asymmetry	0.72		
Theta	-34.4°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
  $R^2 = 0.988$

Parameters:
 A = 1147.430   (brightness)
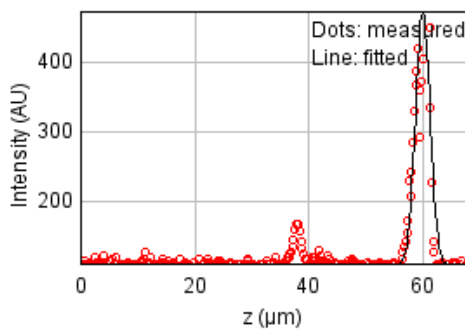 B = 120.468   (background)
 a = 0.640 px
 b = -0.214 px
 c = 0.807 px

xc = 5.812 px
yc = 6.093 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 166674.045
Standard deviation: 23.30048
R^2: 0.88241
Parameters:
 a = 111.38973
 b = 473.25159
 c = 60.01711
 d = 1.26995

Bead 2703

Date : Mon Oct 17 13:30:03 PDT 2022
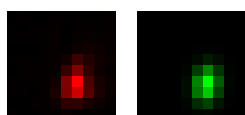Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -29.9 um (x), 95.6 um (y), 60.0 um (z)
Corresponding bead : Not found

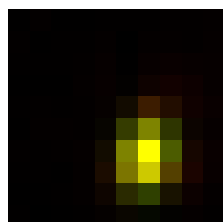| FWHM	Non corrected	Corrected	Theoretical
min	396 nm	409 nm	223 nm
max	551 nm	570 nm	223 nm
z	1.08 um	1.09 um	885 nm
Asymmetry	0.718		
Theta	81.3°		

XY profile & fitting parameters :

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

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

Parameters:
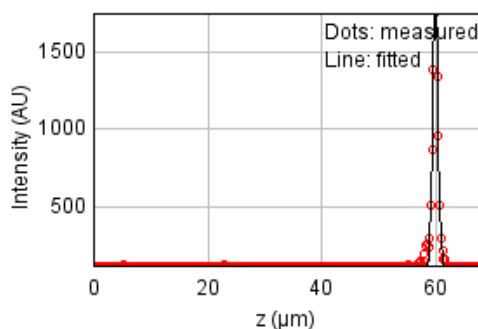 A = 1659.346   (brightness)
 B = 132.933   (background)
 a = 0.848 px
 b = 0.062 px
 c = 0.451 px

xc = 5.876 px
yc = 6.252 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 88312.4971
Standard deviation: 16.96063
R^2: 0.99135
Parameters:
 a = 116.13225
 b = 1789.18399
 c = 59.95264
 d = 0.45977

Bead 2704

Date : Mon Oct 17 13:30:03 PDT 2022
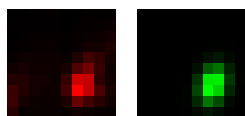Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

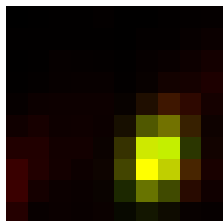Coordinates : 83.0 um (x), 94.1 um (y), 60.3 um (z)
Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	410 nm	424 nm	223 nm
max	577 nm	596 nm	223 nm
z	1.61 um	1.61 um	885 nm
Asymmetry	0.712		
Theta	71.7°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
$R^2 = 0.921$

Parameters:
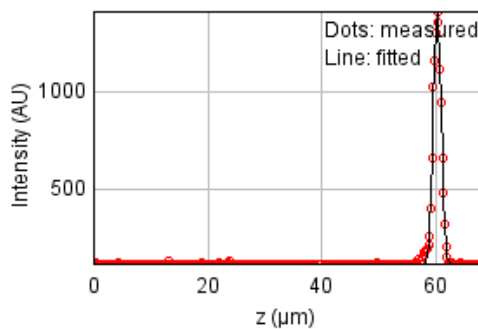A = 1374.667   (brightness)
B = 167.011   (background)
a = 0.758 px
b = 0.117 px
c = 0.442 px

xc = 6.440 px
yc = 6.488 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 45265.3608
Standard deviation: 12.14266
R^2: 0.99490
Parameters:
a = 114.18502
b = 1405.34193
c = 60.27788
d = 0.68187

Bead 2705

Date : Mon Oct 17 13:30:03 PDT 2022
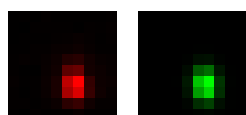Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -159 um (x), 72.5 um (y), 60.0 um (z)
Corresponding bead : Not found

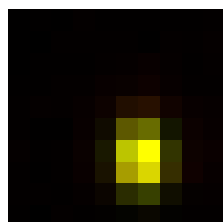| FWHM	Non corrected	Corrected	Theoretical
min	379 nm	392 nm	223 nm
max	510 nm	528 nm	223 nm
z	1.18 um	1.19 um	885 nm
Asymmetry	0.743		
Theta	-86.5°		

XY profile & fitting parameters :

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

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

R^2 = 0.989

Parameters:
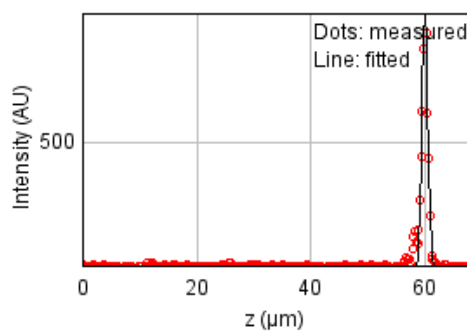A = 1016.589   (brightness)
B = 119.241   (background)
a = 0.930 px
b = -0.026 px
c = 0.517 px

xc = 5.650 px
yc = 6.312 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 61553.6252
Standard deviation: 14.15982
R^2: 0.97597
Parameters:
a = 112.65440
b = 908.58069
c = 60.04968
d = 0.50299

Bead 2706

Date : Mon Oct 17 13:30:03 PDT 2022
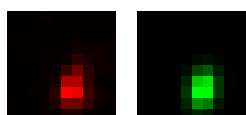Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -21.2 um (x), 37.0 um (y), 60.1 um (z)
Corresponding bead : Not found

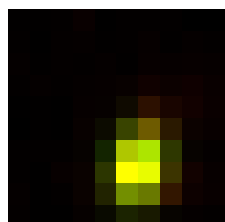| FWHM	Non corrected	Corrected	Theoretical
min	409 nm	423 nm	223 nm
max	580 nm	599 nm	223 nm
z	1.42 um	1.42 um	885 nm
Asymmetry	0.706		
Theta	78.6°		

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 = 0.968

Parameters:
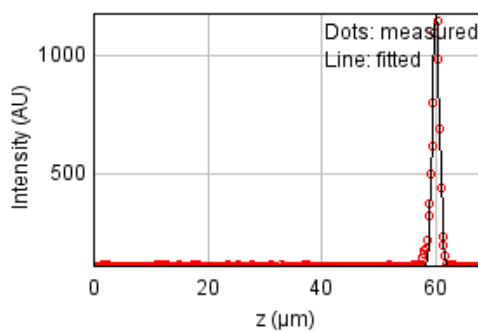 A = 1205.296   (brightness)
 B = 134.433   (background)
 a = 0.785 px
 b = 0.077 px
 c = 0.415 px

 xc = 5.521 px
 yc = 6.703 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 79909.1045
Standard deviation: 16.13351
R^2: 0.98512
Parameters:
 a = 115.01315
 b = 1177.14042
 c = 60.07257
 d = 0.60091

Bead 2707

Date : Mon Oct 17 13:30:03 PDT 2022
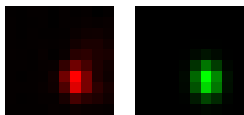Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 119 um (x), 34.9 um (y), 60.1 um (z)
Corresponding bead : Not found

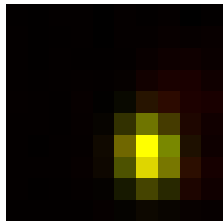| FWHM	Non corrected	Corrected	Theoretical
min	416 nm	430 nm	223 nm
max	530 nm	547 nm	223 nm
z	1.32 um	1.32 um	885 nm
Asymmetry	0.786		
Theta	-85.2°		

XY profile & fitting parameters :

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

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

 Parameters:
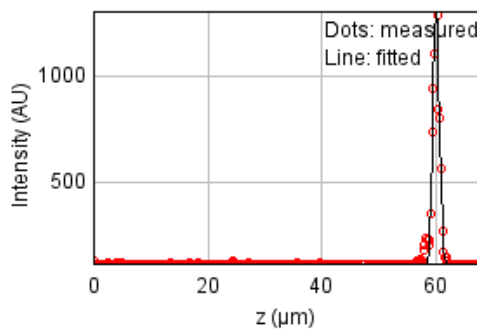 A = 1335.287   (brightness)
  B = 130.411   (background)
  a = 0.772 px
  b = -0.024 px
  c = 0.481 px

 xc = 6.100 px
 yc = 6.319 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 128619.528
Standard deviation: 20.46842
R^2: 0.97975
Parameters:
 a = 113.54072
 b = 1305.55552
 c = 60.08995
 d = 0.55991

Bead 2708

Date : Mon Oct 17 13:30:03 PDT 2022
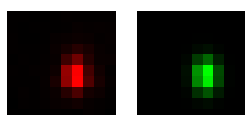Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -112 um (x), 4.97 um (y), 59.7 um (z)
Corresponding bead : Not found

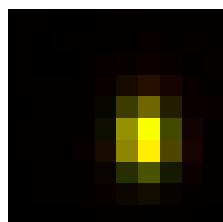| FWHM	Non corrected	Corrected	Theoretical
min	384 nm	397 nm	223 nm
max	521 nm	538 nm	223 nm
z	1.16 um	1.16 um	885 nm
Asymmetry	0.738		
Theta	-88.8°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
   $R^2 = 0.987$

Parameters:
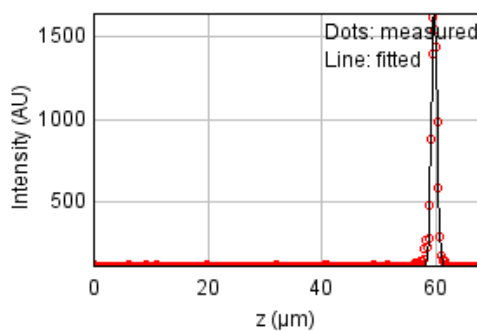 A = 1675.292   (brightness)
 B = 123.474   (background)
 a = 0.909 px
 b = -0.009 px
 c = 0.495 px

xc = 5.813 px
yc = 5.425 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 80354.0703
Standard deviation: 16.17837
R^2: 0.99147
Parameters:
 a = 114.55769
 b = 1668.99587
 c = 59.74795
 d = 0.49237

Bead 2709

Date : Mon Oct 17 13:30:03 PDT 2022
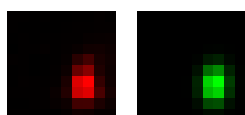Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -28.0 um (x), 2.8 um (y), 60.0 um (z)
Corresponding bead : Not found

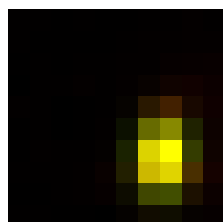| FWHM	Non corrected	Corrected	Theoretical
min	404 nm	417 nm	223 nm
max	576 nm	595 nm	223 nm
z	1.04 um	1.04 um	885 nm
Asymmetry	0.701		
Theta	86.4°		

XY profile & fitting parameters :

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

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

  $R^2 = 0.981$

Parameters:
 A = 1676.080   (brightness)
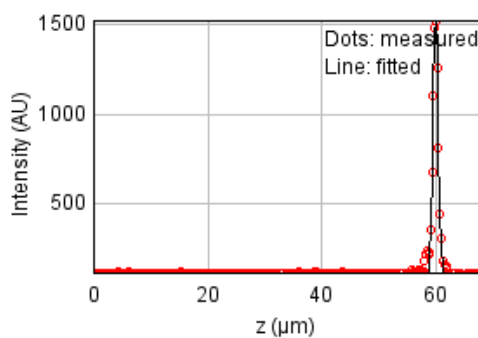 B = 126.552   (background)
 a = 0.821 px
 b = 0.026 px
 c = 0.406 px

  xc = 6.607 px
  yc = 6.293 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 72890.8286
Standard deviation: 15.40874
R^2: 0.98979
Parameters:
 a = 115.75442
 b = 1542.46576
 c = 59.98788
 d = 0.44099

Bead 2710

Date : Mon Oct 17 13:30:03 PDT 2022
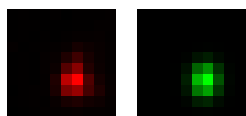Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 5.0 um (x), -23.3 um (y), 60.2 um (z)
Corresponding bead : Not found

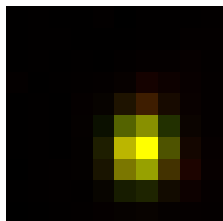| FWHM	Non corrected	Corrected	Theoretical
min	427 nm	441 nm	223 nm
max	509 nm	527 nm	223 nm
z	1.04 um	1.05 um	885 nm
Asymmetry	0.838		
Theta	84.8°		

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
   $R^2 = 0.978$

Parameters:
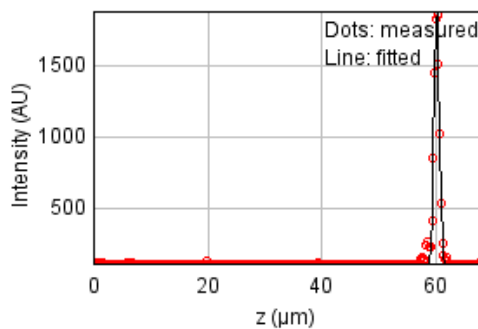 A = 1784.266   (brightness)
 B = 128.040   (background)
 a = 0.735 px
 b = 0.020 px
 c = 0.519 px

xc = 5.729 px
yc = 6.064 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 99835.3129
Standard deviation: 18.03320
R^2: 0.99109
Parameters:
 a = 116.82136
 b = 1903.08749
 c = 60.19514
 d = 0.44202

Bead 2711

Date : Mon Oct 17 13:30:03 PDT 2022
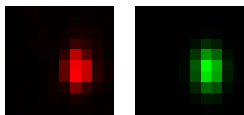Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -78.9 um (x), -42.1 um (y), 60.1 um (z)
Corresponding bead : Not found

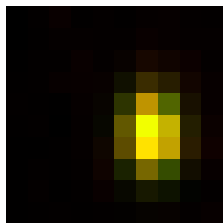| FWHM	Non corrected	Corrected	Theoretical
min	434 nm	448 nm	223 nm
max	635 nm	657 nm	223 nm
z	1.5 um	1.51 um	885 nm
Asymmetry	0.682		
Theta	-88.0°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 1142.659   (brightness)
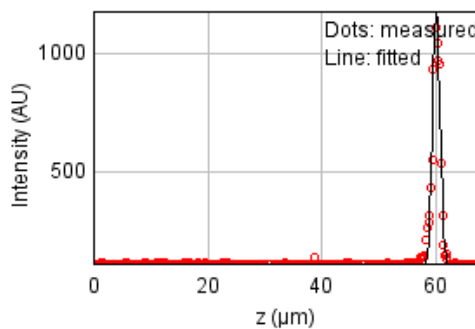 B = 118.693   (background)
 a = 0.713 px
 b = -0.013 px
 c = 0.333 px

xc = 6.254 px
yc = 5.328 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 165528.344
Standard deviation: 23.22026
R^2: 0.97131
Parameters:
 a = 114.49822
 b = 1176.52571
 c = 60.11147
 d = 0.63804

Bead 2712

Date : Mon Oct 17 13:30:03 PDT 2022
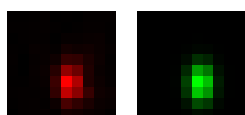Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 44.7 um (x), -45.1 um (y), 59.7 um (z)
Corresponding bead : Not found

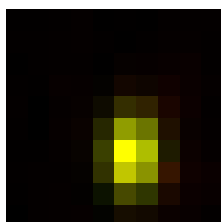| FWHM	Non corrected	Corrected	Theoretical
min	401 nm	414 nm	223 nm
max	599 nm	620 nm	223 nm
z	1.31 um	1.31 um	885 nm
Asymmetry	0.668		
Theta	90.0°		

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 = 0.982

Parameters:
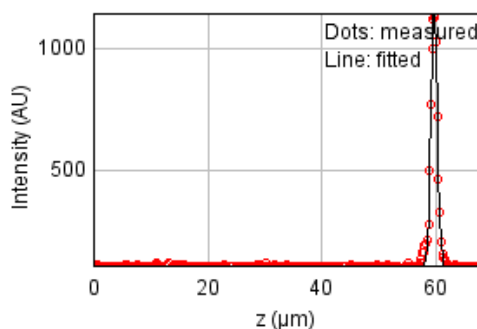A = 1036.513   (brightness)
B = 127.039   (background)
a = 0.837 px
b = 0.000 px
c = 0.373 px

xc = 5.323 px
yc = 6.155 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 38681.4324
Standard deviation: 11.22489
R^2: 0.99186
Parameters:
a = 114.60542
b = 1156.76634
c = 59.72464
d = 0.55478

Bead 2713

Date : Mon Oct 17 13:30:03 PDT 2022
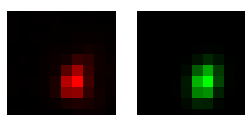Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 80.5 um (x), -54.3 um (y), 60.3 um (z)
Corresponding bead : Not found

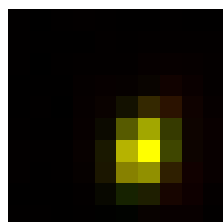| FWHM	Non corrected	Corrected	Theoretical
min	393 nm	406 nm	223 nm
max	541 nm	559 nm	223 nm
z	1.31 um	1.32 um	885 nm
Asymmetry	0.727		
Theta	71.5°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
$R^2 = 0.985$

Parameters:
A = 1992.856   (brightness)
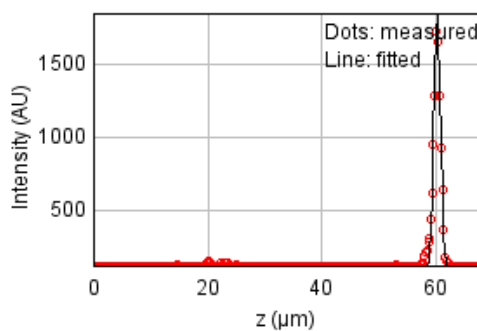B = 131.463   (background)
a = 0.827 px
b = 0.123 px
c = 0.500 px

xc = 5.716 px
yc = 5.998 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 133568.721
Standard deviation: 20.85851
R^2: 0.98986
Parameters:
 a = 116.55467
 b = 1846.94377
 c = 60.26914
 d = 0.55698

Bead 2714

Date : Mon Oct 17 13:30:03 PDT 2022
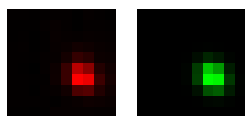Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 136 um (x), -81.8 um (y), 60.3 um (z)
Corresponding bead : Not found

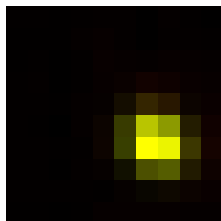| FWHM	Non corrected	Corrected	Theoretical
min	405 nm	419 nm	223 nm
max	466 nm	482 nm	223 nm
z	1.41 um	1.41 um	885 nm
Asymmetry	0.869		
Theta	-46.8°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
   $R^2 = 0.990$

Parameters:
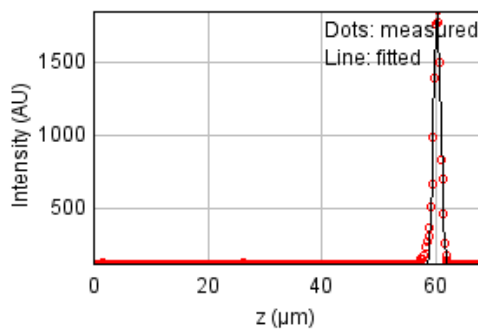 A = 2039.225   (brightness)
 B = 127.657   (background)
 a = 0.724 px
 b = -0.100 px
 c = 0.712 px

xc = 6.433 px
yc = 5.743 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 154518.517
Standard deviation: 22.43474
R^2: 0.98912
Parameters:
 a = 112.48354
 b = 1847.89966
 c = 60.27049
 d = 0.59769

Bead 2715

Date : Mon Oct 17 13:30:03 PDT 2022
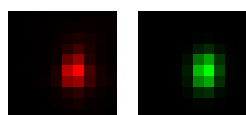Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -22.5 um (x), -88.4 um (y), 60.3 um (z)
Corresponding bead : Not found

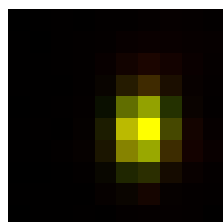| FWHM	Non corrected	Corrected	Theoretical
min	412 nm	425 nm	223 nm
max	554 nm	573 nm	223 nm
z	1.16 um	1.16 um	885 nm
Asymmetry	0.743		
Theta	84.6°		

XY profile & fitting parameters :

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

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

   $R^2 = 0.980$

Parameters:
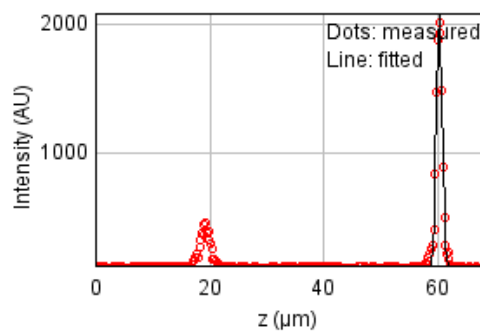A = 1939.841   (brightness)
B = 136.682   (background)
a = 0.789 px
b = 0.033 px
c = 0.440 px

xc = 5.699 px
yc = 5.045 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 854200.945
Standard deviation: 52.74859
R^2: 0.94488
Parameters:
 a = 127.90669
 b = 2077.39189
 c = 60.29098
 d = 0.49085

Bead 2716

Date : Mon Oct 17 13:30:03 PDT 2022
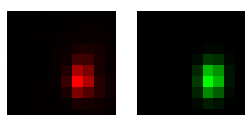Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 57.9 um (x), -89.5 um (y), 60.2 um (z)
Corresponding bead : Not found

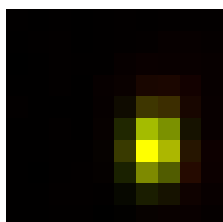| FWHM	Non corrected	Corrected	Theoretical
min	383 nm	396 nm	223 nm
max	540 nm	558 nm	223 nm
z	1.39 um	1.39 um	885 nm
Asymmetry	0.709		
Theta	85.2°		

XY profile & fitting parameters :

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

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

R^2 = 0.975

Parameters:
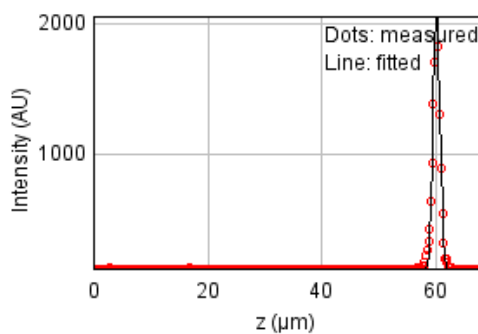A = 2032.364   (brightness)
B = 134.631   (background)
a = 0.913 px
b = 0.038 px
c = 0.464 px

xc = 6.325 px
yc = 5.808 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 91666.6793
Standard deviation: 17.27971
R^2: 0.99488
Parameters:
a = 114.43667
b = 2081.13685
c = 60.15813
d = 0.58950

Bead 2717

Date : Mon Oct 17 13:30:03 PDT 2022
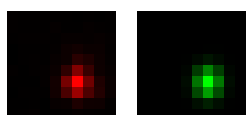Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -67.1 um (x), -93.5 um (y), 60.0 um (z)
Corresponding bead : Not found

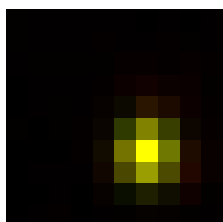| FWHM	Non corrected	Corrected	Theoretical
min	415 nm	429 nm	223 nm
max	482 nm	498 nm	223 nm
z	1.28 um	1.29 um	885 nm
Asymmetry	0.862		
Theta	87.4°		

XY profile & fitting parameters :

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

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

$R^2 = 0.981$

Parameters:
A = 1578.204   (brightness)
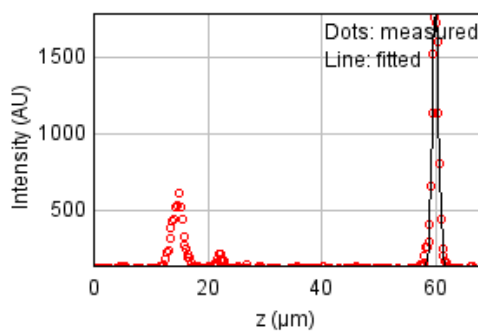B = 128.439   (background)
a = 0.778 px
b = 0.009 px
c = 0.579 px

xc = 6.011 px
yc = 6.083 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 1805398.11
Standard deviation: 76.68622
R^2: 0.86845
Parameters:
a = 137.04132
b = 1808.05475
c = 59.96667
d = 0.54536

Bead 2718

Date : Mon Oct 17 13:30:03 PDT 2022
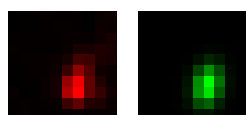Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 134 um (x), 95.0 um (y), 60.4 um (z)
Corresponding bead : Not found

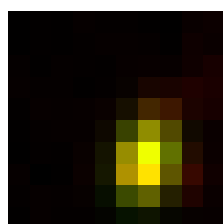| FWHM	Non corrected	Corrected	Theoretical
min	431 nm	445 nm	223 nm
max	625 nm	646 nm	223 nm
z	1.65 um	1.66 um	885 nm
Asymmetry	0.689		
Theta	77.6°		

XY profile & fitting parameters :

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

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

$R^2 = 0.948$

Parameters:
A = 958.661   (brightness)
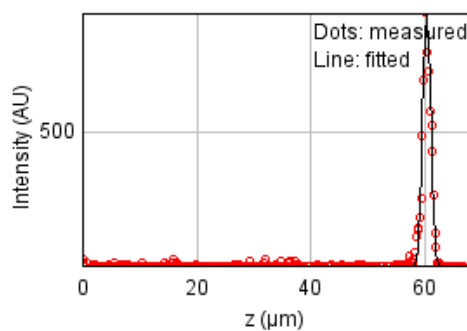B = 125.195   (background)
a = 0.706 px
b = 0.080 px
c = 0.362 px
xc = 5.880 px
yc = 6.355 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 101639.599
Standard deviation: 18.19543
R^2: 0.96698
Parameters:
a = 112.45375
b = 851.24263
c = 60.36397
d = 0.70272

Bead 2719

Date : Mon Oct 17 13:30:03 PDT 2022
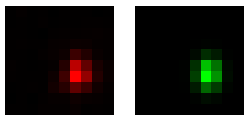Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -126 um (x), 19.9 um (y), 60.7 um (z)
Corresponding bead : Not found

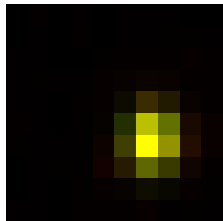| FWHM	Non corrected	Corrected	Theoretical
min	371 nm	383 nm	223 nm
max	474 nm	490 nm	223 nm
z	1.21 um	1.21 um	885 nm
Asymmetry	0.781		
Theta	88.4°		

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 = 0.986

Parameters:
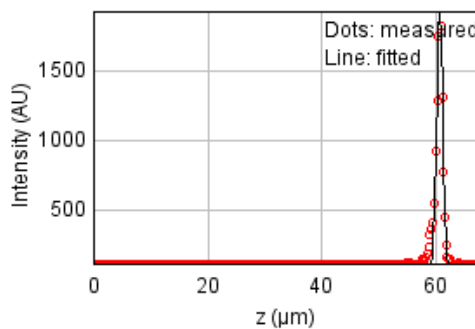 A = 1964.051   (brightness)
 B = 130.671   (background)
 a = 0.976 px
 b = 0.011 px
 c = 0.596 px

xc = 6.217 px
yc = 5.735 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 251317.968
Standard deviation: 28.61163
R^2: 0.98128
Parameters:
 a = 116.66032
 b = 1927.03665
 c = 60.70001
 d = 0.51261

Bead 2720

Date : Mon Oct 17 13:30:03 PDT 2022
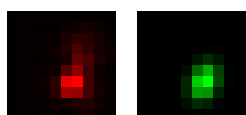Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -2.72 um (x), 19.6 um (y), 60.3 um (z)
Corresponding bead : Not found

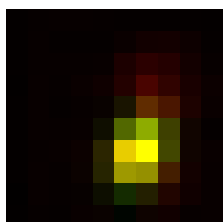| FWHM	Non corrected	Corrected	Theoretical
min	407 nm	420 nm	223 nm
max	563 nm	582 nm	223 nm
z	1.28 um	1.29 um	885 nm
Asymmetry	0.722		
Theta	66.4°		

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
$R^2 = 0.902$

Parameters:
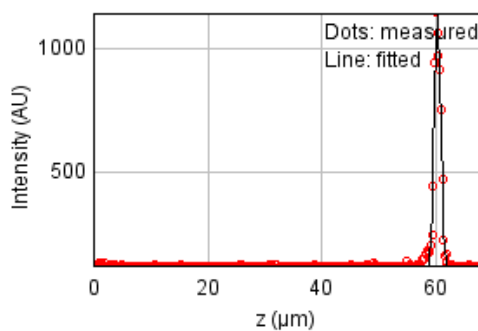A = 1008.292   (brightness)
B = 133.903   (background)
a = 0.749 px
b = 0.143 px
c = 0.485 px

xc = 5.645 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: 119814.629
Standard deviation: 19.75540
R^2: 0.97440
Parameters:
a = 114.05084
b = 1148.68151
c = 60.32602
d = 0.54430

Bead 2721

Date : Mon Oct 17 13:30:03 PDT 2022
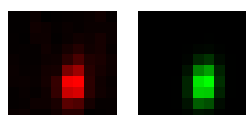Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -161 um (x), -12.6 um (y), 59.4 um (z)
Corresponding bead : Not found

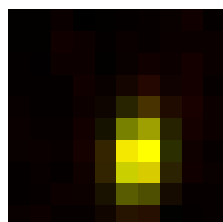| FWHM	Non corrected	Corrected	Theoretical
min	387 nm	400 nm	223 nm
max	626 nm	647 nm	223 nm
z	1.17 um	1.17 um	885 nm
Asymmetry	0.619		
Theta	83.7°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * \exp(-(a*(x-x_c)^2 + c*(y-y_c)^2 + 2*b*(x-x_c)*(y-y_c))) + B$
   $R^2 = 0.982$

Parameters:
 A = 462.564 (brightness)
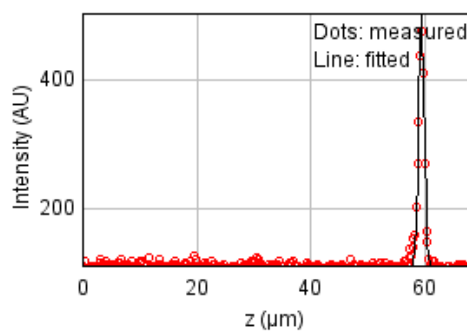 B = 115.834 (background)
 a = 0.888 px
 b = 0.060 px
 c = 0.349 px

xc = 5.537 px
yc = 6.247 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 19961.2603
Standard deviation: 8.06352
R^2: 0.96813
Parameters:
 a = 110.71895
 b = 505.13530
 c = 59.43857
 d = 0.49680

Bead 2722

Date : Mon Oct 17 13:30:03 PDT 2022
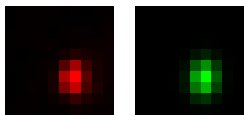Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 136 um (x), -18.5 um (y), 60.5 um (z)
Corresponding bead : Not found

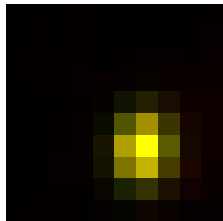| FWHM	Non corrected	Corrected	Theoretical
min	420 nm	434 nm	223 nm
max	539 nm	557 nm	223 nm
z	1.4 um	1.4 um	885 nm
Asymmetry	0.779		
Theta	85.8°		

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
  $R^2 = 0.985$

Parameters:
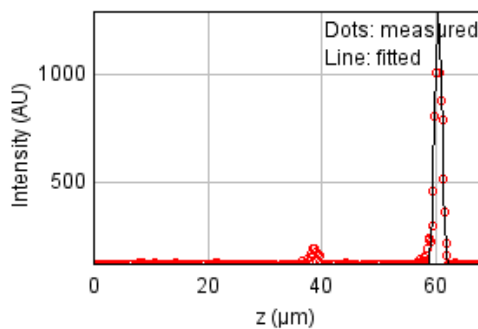 A = 1340.785   (brightness)
 B = 121.265   (background)
 a = 0.759 px
 b = 0.022 px
 c = 0.463 px

xc = 5.814 px
yc = 6.131 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 166623.498
Standard deviation: 23.29694
R^2: 0.97483
Parameters:
 a = 115.84316
 b = 1295.51973
 c = 60.46027
 d = 0.59410

Bead 2723

Date : Mon Oct 17 13:30:03 PDT 2022
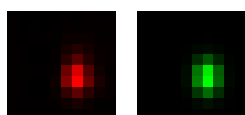Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -87.8 um (x), -29.6 um (y), 60.6 um (z)
Corresponding bead : Not found

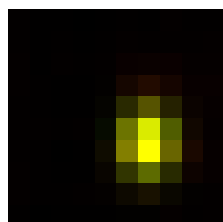| FWHM	Non corrected	Corrected	Theoretical
min	405 nm	419 nm	223 nm
max	530 nm	548 nm	223 nm
z	1.19 um	1.19 um	885 nm
Asymmetry	0.764		
Theta	89.7°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
  $R^2 = 0.987$

Parameters:
 A = 1768.571   (brightness)
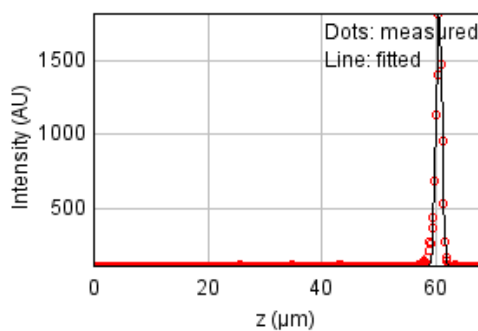 B = 125.364   (background)
 a = 0.818 px
 b = 0.002 px
 c = 0.477 px

 xc = 5.931 px
 yc = 5.590 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 139716.216
Standard deviation: 21.33311
R^2: 0.98818
Parameters:
 a = 115.10143
 b = 1833.42748
 c = 60.57892
 d = 0.50412

Bead 2724

Date : Mon Oct 17 13:30:03 PDT 2022
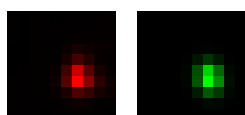Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -64.4 um (x), -34.7 um (y), 60.4 um (z)
Corresponding bead : Not found

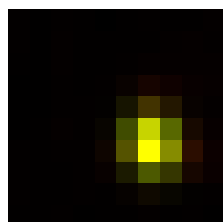| FWHM	Non corrected	Corrected	Theoretical
min	391 nm	404 nm	223 nm
max	469 nm	485 nm	223 nm
z	1.27 um	1.28 um	885 nm
Asymmetry	0.833		
Theta	-78.6°		

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 = 0.981

Parameters:
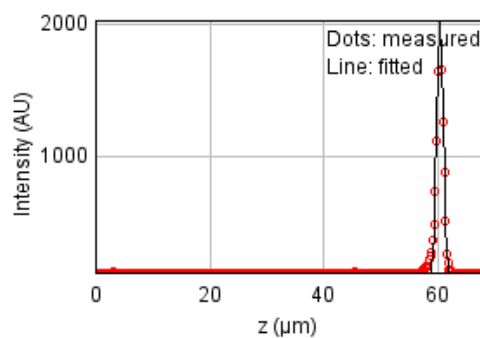A = 2050.925   (brightness)
B = 130.704   (background)
a = 0.868 px
b = -0.052 px
c = 0.620 px

xc = 6.131 px
yc = 5.662 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 120475.041
Standard deviation: 19.80977
R^2: 0.99250
Parameters:
a = 114.72523
b = 2056.17483
c = 60.40820
d = 0.53994

Bead 2725

Date : Mon Oct 17 13:30:03 PDT 2022
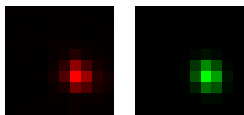Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 139 um (x), -91.3 um (y), 60.0 um (z)
Corresponding bead : Not found

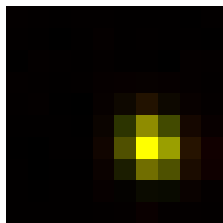| FWHM	Non corrected	Corrected	Theoretical
min	393 nm	406 nm	223 nm
max	446 nm	461 nm	223 nm
z	1.31 um	1.31 um	885 nm
Asymmetry	0.88		
Theta	-59.6°		

XY profile & fitting parameters :

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

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

$R^2 = 0.986$

Parameters:
A = 1176.253   (brightness)
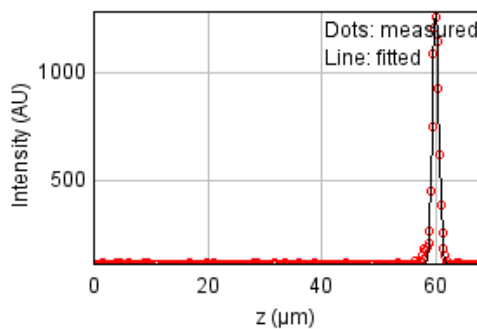B = 119.100   (background)
a = 0.819 px
b = -0.085 px
c = 0.723 px

xc = 6.205 px
yc = 5.939 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 36467.2999
Standard deviation: 10.89890
R^2: 0.99401
Parameters:
a = 110.36708
b = 1289.84656
c = 60.01003
d = 0.55593

Bead 2726 (Rejected)

Date : Mon Oct 17 13:30:03 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 121 um (x), 95.7 um (y), 48.9 um (z)
Corresponding bead : Not found
Reason of rejection : R or C parameter off limits.

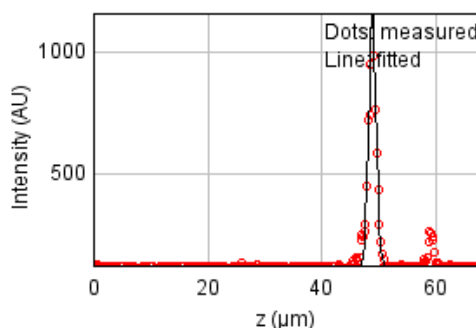| FWHM	Non corrected	Corrected	Theoretical
min	0	0	223 nm
max	0	0	223 nm
z	1.52 um	1.52 um	885 nm
Asymmetry	0.0		
Theta	0.0°		

XY profile & fitting parameters :

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

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

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 208031.999
Standard deviation: 26.03130
R^2: 0.96376
Parameters:
 a = 116.35964
 b = 1166.77801
 c = 48.92622
 d = 0.64414

Bead 2727

Date : Mon Oct 17 13:30:03 PDT 2022
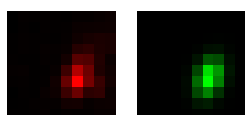Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

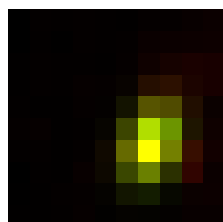Coordinates : 125 um (x), 93.1 um (y), 60.4 um (z)
Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	401 nm	415 nm	223 nm
max	605 nm	625 nm	223 nm
z	1.53 um	1.54 um	885 nm
Asymmetry	0.664		
Theta	70.8°		

XY profile & fitting parameters :

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

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

$R^2 = 0.936$

Parameters:
 A = 962.578   (brightness)
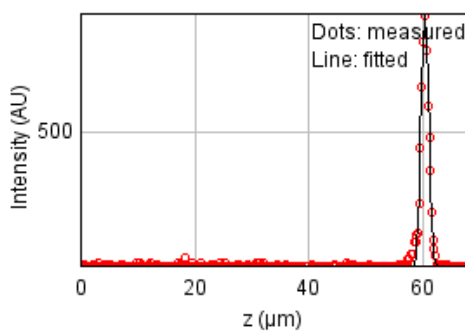 B = 129.106   (background)
 a = 0.783 px
 b = 0.145 px
 c = 0.418 px

xc = 6.129 px
yc = 5.625 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 37999.6830
Standard deviation: 11.12553
R^2: 0.98647
Parameters:
 a = 111.81377
 b = 850.88237
 c = 60.39814
 d = 0.65176

Bead 2728

Date : Mon Oct 17 13:30:03 PDT 2022
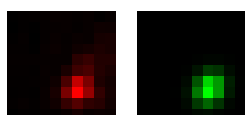Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 132 um (x), 89.2 um (y), 60.5 um (z)
Corresponding bead : Not found

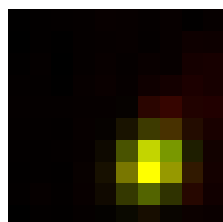| FWHM	Non corrected	Corrected	Theoretical
min	438 nm	453 nm	223 nm
max	517 nm	534 nm	223 nm
z	1.46 um	1.47 um	885 nm
Asymmetry	0.848		
Theta	56.6°		

XY profile & fitting parameters :

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

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

Parameters:
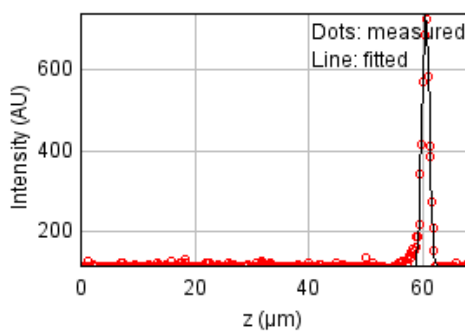 A = 674.591   (brightness)
 B = 122.196   (background)
 a = 0.639 px
 b = 0.090 px
 c = 0.562 px

xc = 6.148 px
yc = 6.640 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 36395.5383
Standard deviation: 10.88817
R^2: 0.98135
Parameters:
 a = 111.88171
 b = 741.42229
 c = 60.52360
 d = 0.61976

Bead 2729

Date : Mon Oct 17 13:30:03 PDT 2022
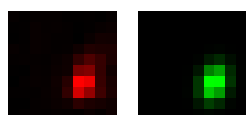Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 136 um (x), 87.8 um (y), 60.4 um (z)
Corresponding bead : Not found

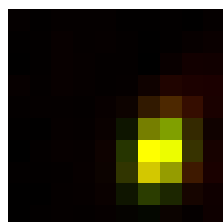| FWHM	Non corrected	Corrected	Theoretical
min	402 nm	416 nm	223 nm
max	558 nm	577 nm	223 nm
z	1.55 um	1.56 um	885 nm
Asymmetry	0.72		
Theta	71.8°		

XY profile & fitting parameters :

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

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

Parameters:
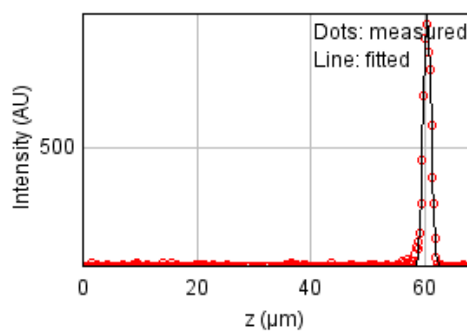 A = 912.845   (brightness)
 B = 120.679   (background)
 a = 0.791 px
 b = 0.119 px
 c = 0.469 px

xc = 6.475 px
yc = 6.120 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 31848.1537
Standard deviation: 10.18528
R^2: 0.99114
Parameters:
 a = 111.03820
 b = 944.95377
 c = 60.43807
 d = 0.65856

Bead 2730

Date : Mon Oct 17 13:30:03 PDT 2022
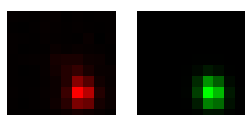Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -131 um (x), 86.9 um (y), 60.2 um (z)
Corresponding bead : Not found

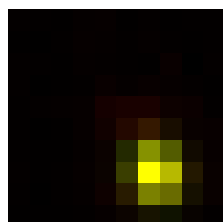| FWHM	Non corrected	Corrected	Theoretical
min	389 nm	402 nm	223 nm
max	471 nm	487 nm	223 nm
z	1.24 um	1.25 um	885 nm
Asymmetry	0.826		
Theta	-75.7°		

XY profile & fitting parameters :

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

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

Parameters:
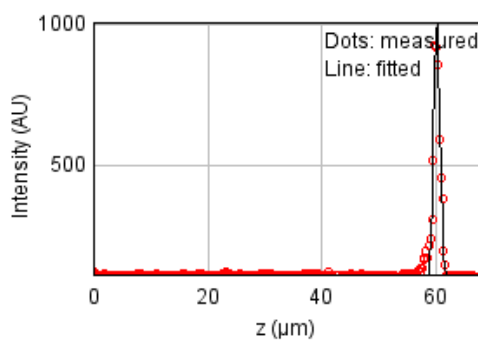 A = 1003.508   (brightness)
 B = 122.276   (background)
 a = 0.870 px
 b = -0.068 px
 c = 0.622 px

xc = 6.313 px
yc = 6.986 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 91024.7549
Standard deviation: 17.21910
R^2: 0.97369
Parameters:
 a = 112.25782
 b = 1015.37409
 c = 60.21161
 d = 0.52718

Bead 2731

Date : Mon Oct 17 13:30:03 PDT 2022
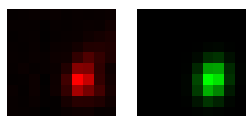Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 135 um (x), 85.4 um (y), 60.5 um (z)
Corresponding bead : Not found

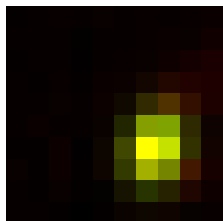| FWHM	Non corrected	Corrected	Theoretical
min	431 nm	445 nm	223 nm
max	575 nm	595 nm	223 nm
z	1.61 um	1.62 um	885 nm
Asymmetry	0.749		
Theta	75.3°		

XY profile & fitting parameters :

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

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

$R^2 = 0.950$

Parameters:
A = 769.326   (brightness)
B = 121.411   (background)
a = 0.703 px
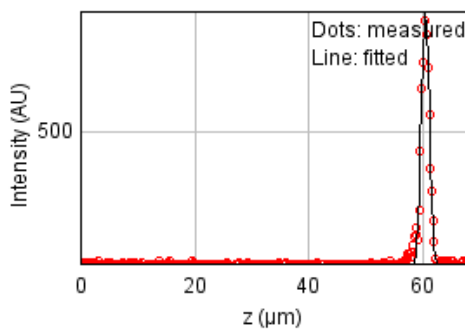b = 0.078 px
c = 0.426 px

xc = 6.410 px
yc = 5.988 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 41787.5326
Standard deviation: 11.66687
R^2: 0.98593
Parameters:
 a = 111.25425
 b = 854.03436
 c = 60.47491
 d = 0.68317

Bead 2732 (Rejected)

Date : Mon Oct 17 13:30:03 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 136 um (x), 83.4 um (y), 50.9 um (z)
Corresponding bead : Not found
Reason of rejection : R or C parameter off limits.

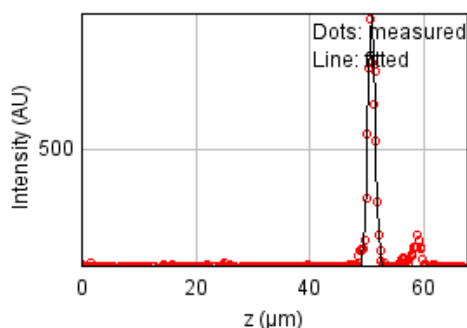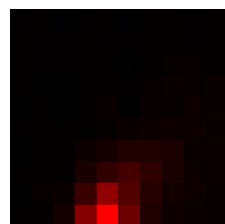| FWHM	Non corrected	Corrected	Theoretical
min	0	0	223 nm
max	0	0	223 nm
z	1.49 um	1.5 um	885 nm
Asymmetry	0.0		
Theta	0.0°		

XY profile & fitting parameters :

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

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

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2))
Sum of residuals squared: 153636.175
Standard deviation: 22.37060
R^2: 0.95739
Parameters:
 a = 115.48877
 b = 951.80383
 c = 50.87132
 d = 0.63360

Bead 2733

Date : Mon Oct 17 13:30:03 PDT 2022
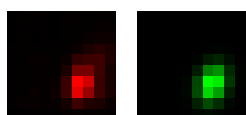Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

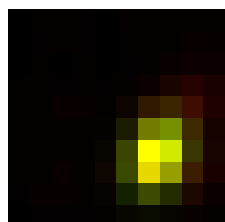Coordinates : 127 um (x), 75.4 um (y), 60.7 um (z)
Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	426 nm	440 nm	223 nm
max	578 nm	598 nm	223 nm
z	1.52 um	1.53 um	885 nm
Asymmetry	0.736		
Theta	69.3°		

XY profile & fitting parameters :

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

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

Parameters:
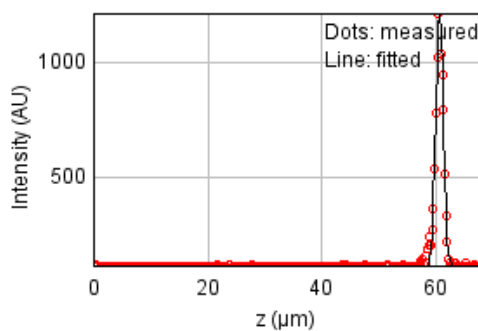 A = 1228.664   (brightness)
 B = 126.354   (background)
 a = 0.698 px
 b = 0.112 px
 c = 0.444 px

xc = 6.408 px
yc = 6.206 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 57600.4122
Standard deviation: 13.69757
R^2: 0.99061
Parameters:
 a = 110.89119
 b = 1210.16742
 c = 60.68761
 d = 0.64603

Bead 2734 (Rejected)

Date : Mon Oct 17 13:30:03 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 115 um (x), 68.1 um (y), 61.1 um (z)
Corresponding bead : Not found
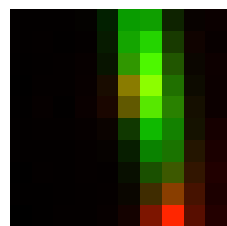Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

FWHM	Non corrected	Corrected	Theoretical
min	412 nm	426 nm	223 nm
max	1.73 um	1.79 um	223 nm
z	1.22 um	1.22 um	885 nm
Asymmetry	0.238		
Theta	-80.9°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)
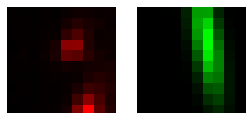
Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
    $R^2 = 0.678$

Parameters:
 A = 170.654   (brightness)
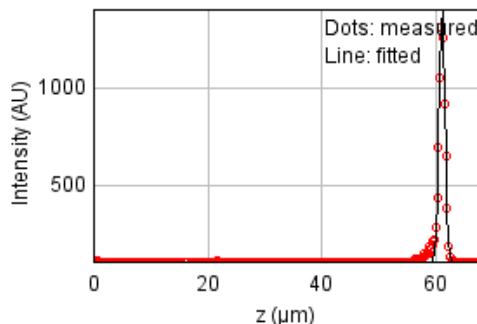 B = 146.600   (background)
 a = 0.769 px
 b = -0.131 px
 c = -0.024 px

xc = 5.897 px
yc = 2.540 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 60374.5370
Standard deviation: 14.02354
R^2: 0.99106
Parameters:
 a = 114.38018
 b = 1399.06899
 c = 61.12409
 d = 0.51716

Bead 2735

Date : Mon Oct 17 13:30:03 PDT 2022
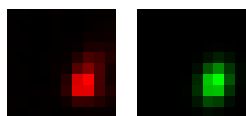Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

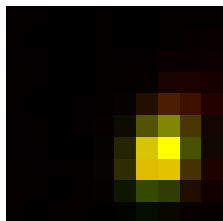Coordinates : 106 um (x), 62.0 um (y), 61.3 um (z)
Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	426 nm	441 nm	223 nm
max	575 nm	595 nm	223 nm
z	1.26 um	1.27 um	885 nm
Asymmetry	0.741		
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
   $R^2 = 0.955$

Parameters:
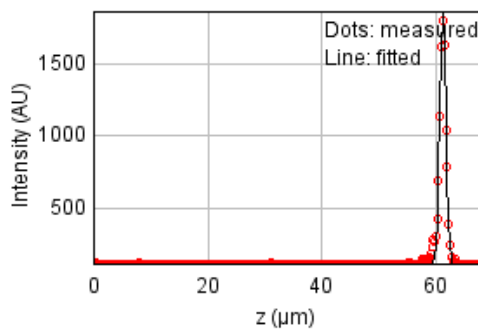 A = 2043.990   (brightness)
 B = 140.525   (background)
 a = 0.695 px
 b = 0.112 px
 c = 0.448 px

xc = 6.641 px
yc = 6.289 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 116008.727
Standard deviation: 19.43910
R^2: 0.99128
Parameters:
 a = 115.73861
 b = 1889.37970
 c = 61.26317
 d = 0.53525

Bead 2736 (Rejected)

Date : Mon Oct 17 13:30:03 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 103 um (x), 60.2 um (y), 61.3 um (z)
Corresponding bead : Not found
Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

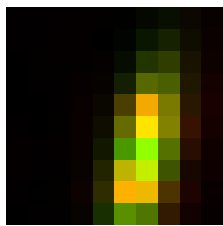| FWHM	Non corrected	Corrected	Theoretical
min	442 nm	457 nm	223 nm
max	1.4 um	1.44 um	223 nm
z	1.59 um	1.59 um	885 nm
Asymmetry	0.316		
Theta	78.6°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)
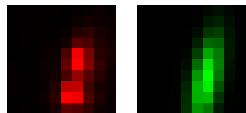
Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
  $R^2 = 0.860$

Parameters:
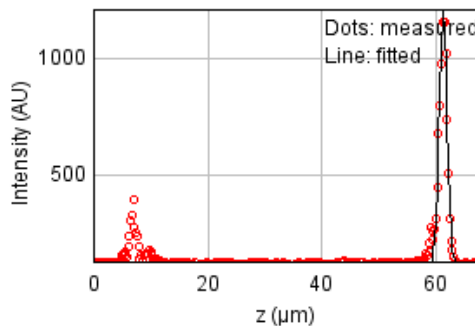 A = 974.404   (brightness)
 B = 123.952   (background)
 a = 0.663 px
 b = 0.120 px
 c = 0.093 px

xc = 5.832 px
yc = 6.330 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2))
Sum of residuals squared: 362987.907
Standard deviation: 34.38562
R^2: 0.94497
Parameters:
 a = 123.44483
 b = 1213.94084
 c = 61.32284
 d = 0.67445

Bead 2737

Date : Mon Oct 17 13:30:03 PDT 2022
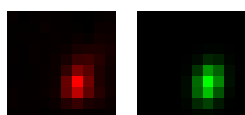Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 146 um (x), 59.6 um (y), 60.6 um (z)
Corresponding bead : Not found

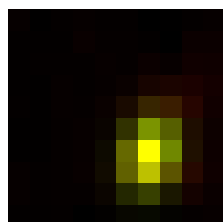| FWHM	Non corrected	Corrected	Theoretical
min	413 nm	427 nm	223 nm
max	588 nm	608 nm	223 nm
z	1.3 um	1.31 um	885 nm
Asymmetry	0.703		
Theta	75.3°		

XY profile & fitting parameters :

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

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

Parameters:
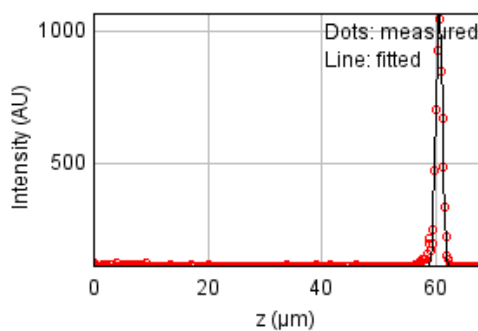 A = 969.619   (brightness)
 B = 122.973   (background)
 a = 0.760 px
 b = 0.098 px
 c = 0.414 px

xc = 6.064 px
yc = 6.145 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 52583.9494
Standard deviation: 13.08752
R^2: 0.98726
Parameters:
 a = 112.31162
 b = 1083.19008
 c = 60.60135
 d = 0.55235

Bead 2738

Date : Mon Oct 17 13:30:03 PDT 2022
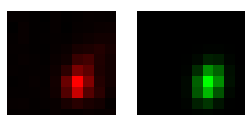Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

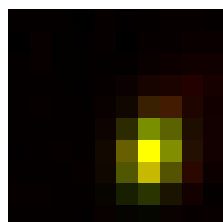Coordinates : 118 um (x), 57.2 um (y), 60.3 um (z)
Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	406 nm	419 nm	223 nm
max	562 nm	581 nm	223 nm
z	1.36 um	1.37 um	885 nm
Asymmetry	0.722		
Theta	73.5°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 888.831   (brightness)
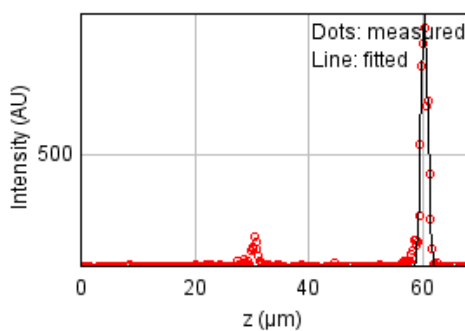 B = 125.228   (background)
 a = 0.784 px
 b = 0.106 px
 c = 0.456 px
xc = 6.108 px
yc = 6.115 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 110251.961
Standard deviation: 18.95064
R^2: 0.96912
Parameters:
 a = 115.00034
 b = 989.79144
 c = 60.31231
 d = 0.57879

Bead 2739 (Rejected)

Date : Mon Oct 17 13:30:03 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 88.7 um (x), 52.1 um (y), 61.6 um (z)
Corresponding bead : Not found
Reason of rejection : R or C parameter off limits.

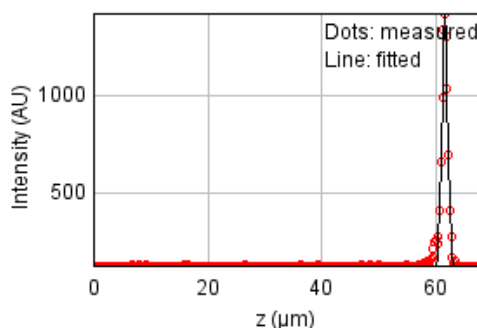| FWHM	Non corrected	Corrected	Theoretical
min	0	0	223 nm
max	0	0	223 nm
z	1.22 um	1.23 um	885 nm
Asymmetry	0.0		
Theta	0.0°		

XY profile & fitting parameters :

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

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

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2))
Sum of residuals squared: 72138.1791
Standard deviation: 15.32899
R^2: 0.98986
Parameters:
 a = 114.75737
 b = 1429.93066
 c = 61.60276
 d = 0.51958

Bead 2740

Date : Mon Oct 17 13:30:03 PDT 2022
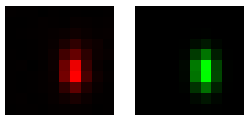Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

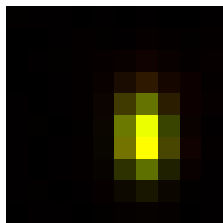Coordinates : -65.4 um (x), 47.9 um (y), 60.5 um (z)
Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	359 nm	371 nm	223 nm
max	579 nm	598 nm	223 nm
z	1.07 um	1.08 um	885 nm
Asymmetry	0.621		
Theta	-87.9°		

XY profile & fitting parameters :

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

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

$R^2 = 0.985$

Parameters:
A = 1896.321   (brightness)
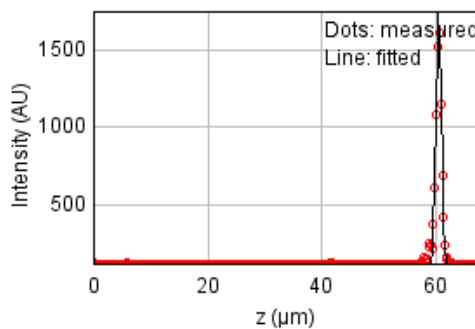B = 131.159   (background)
a = 1.039 px
b = -0.023 px
c = 0.401 px

xc = 5.869 px
yc = 5.480 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 77030.6267
Standard deviation: 15.84027
R^2: 0.99202
Parameters:
a = 114.97090
b = 1748.54942
c = 60.52029
d = 0.45646

Bead 2741

Date : Mon Oct 17 13:30:03 PDT 2022
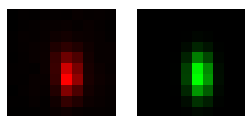Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

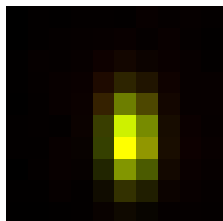Coordinates : -135 um (x), 45.0 um (y), 60.5 um (z)
Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	375 nm	387 nm	223 nm
max	674 nm	697 nm	223 nm
z	1.24 um	1.25 um	885 nm
Asymmetry	0.556		
Theta	-89.0°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
   $R^2 = 0.982$

Parameters:
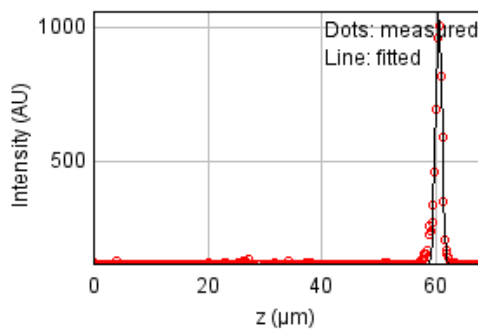 A = 1201.388   (brightness)
 B = 127.524   (background)
 a = 0.955 px
 b = -0.011 px
 c = 0.295 px

xc = 5.220 px
yc = 5.609 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 74114.1804
Standard deviation: 15.53751
R^2: 0.98044
Parameters:
 a = 114.54177
 b = 1061.95424
 c = 60.53772
 d = 0.52824

Bead 2742

Date : Mon Oct 17 13:30:03 PDT 2022
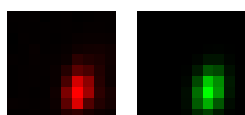Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 68.9 um (x), 13.0 um (y), 60.6 um (z)
Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	434 nm	449 nm	223 nm
max	677 nm	700 nm	223 nm
z	1.37 um	1.38 um	885 nm
Asymmetry	0.641		
Theta	77.3°		

XY profile & fitting parameters :

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

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

$R^2 = 0.976$

Parameters:
A = 1261.294   (brightness)
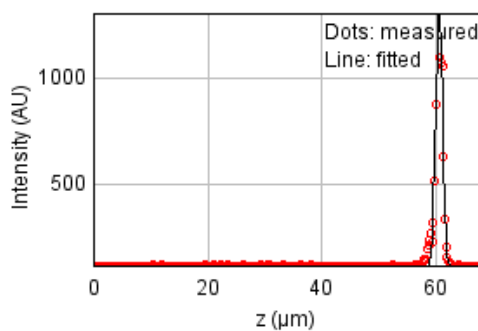B = 124.728   (background)
a = 0.692 px
b = 0.090 px
c = 0.313 px

xc = 6.134 px
yc = 6.859 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 199858.662
Standard deviation: 25.51481
R^2: 0.97064
Parameters:
a = 115.27504
b = 1319.37430
c = 60.60408
d = 0.58336

Bead 2743

Date : Mon Oct 17 13:30:03 PDT 2022
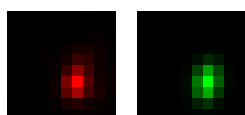Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

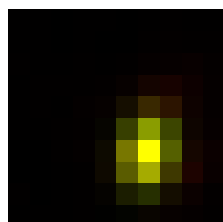Coordinates : 95.0 um (x), 11.0 um (y), 61.0 um (z)
Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	390 nm	403 nm	223 nm
max	557 nm	576 nm	223 nm
z	1.13 um	1.14 um	885 nm
Asymmetry	0.7		
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
   $R^2 = 0.976$

Parameters:
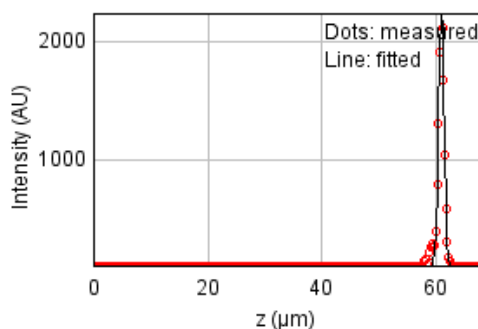 A = 2048.455   (brightness)
 B = 138.268   (background)
 a = 0.871 px
 b = 0.072 px
 c = 0.444 px

xc = 5.934 px
yc = 6.058 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 127371.558
Standard deviation: 20.36887
R^2: 0.99266
Parameters:
 a = 116.01284
 b = 2250.11811
 c = 60.99975
 d = 0.48146

Bead 2744

Date : Mon Oct 17 13:30:03 PDT 2022
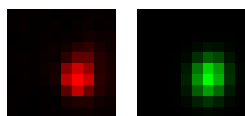Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

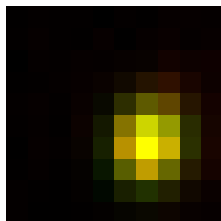Coordinates : 119 um (x), -4.35 um (y), 60.4 um (z)
Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	532 nm	550 nm	223 nm
max	636 nm	657 nm	223 nm
z	1.28 um	1.28 um	885 nm
Asymmetry	0.837		
Theta	79.5°		

XY profile & fitting parameters :

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

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

$R^2 = 0.969$

Parameters:
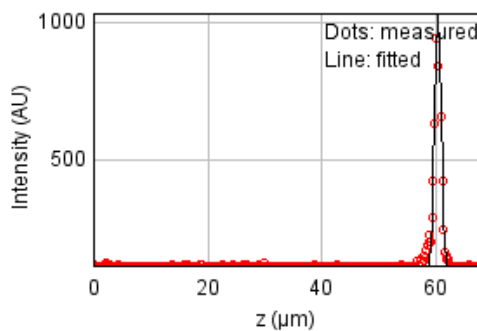A = 969.692   (brightness)
B = 120.177   (background)
a = 0.469 px
b = 0.025 px
c = 0.337 px

xc = 6.116 px
yc = 5.765 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 118916.510
Standard deviation: 19.68121
R^2: 0.96895
Parameters:
a = 113.22947
b = 1047.70281
c = 60.39314
d = 0.54290

Bead 2745

Date : Mon Oct 17 13:30:03 PDT 2022
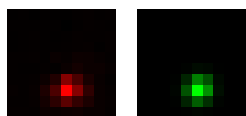Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

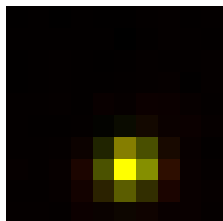Coordinates : -148 um (x), -27.3 um (y), 60.6 um (z)
Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	383 nm	396 nm	223 nm
max	410 nm	423 nm	223 nm
z	1.26 um	1.26 um	885 nm
Asymmetry	0.936		
Theta	44.7°		

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 = 1305.945   (brightness)
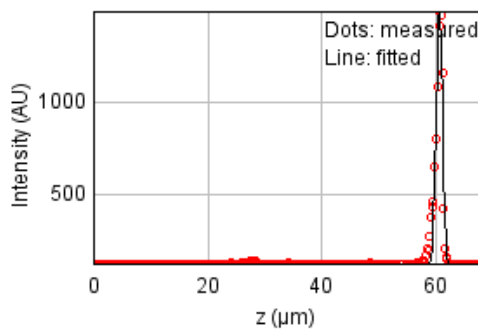B = 124.749   (background)
a = 0.856 px
b = 0.057 px
c = 0.857 px

xc = 5.167 px
yc = 6.900 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 375129.109
Standard deviation: 34.95596
R^2: 0.95632
Parameters:
a = 115.56054
b = 1516.78864
c = 60.63394
d = 0.53418

Bead 2746

Date : Mon Oct 17 13:30:03 PDT 2022
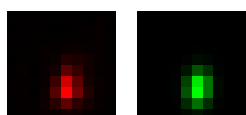Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

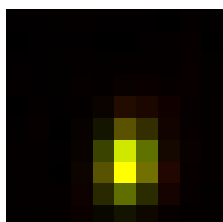Coordinates : -117 um (x), -30.7 um (y), 60.5 um (z)
Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	370 nm	383 nm	223 nm
max	540 nm	558 nm	223 nm
z	1.22 um	1.22 um	885 nm
Asymmetry	0.686		
Theta	83.6°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 1221.340   (brightness)
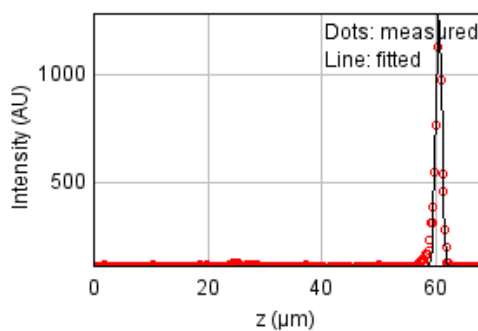 B = 122.857   (background)
 a = 0.972 px
 b = 0.058 px
 c = 0.467 px

xc = 5.101 px
yc = 6.594 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 124996.117
Standard deviation: 20.17804
R^2: 0.97806
Parameters:
 a = 115.66434
 b = 1288.60922
 c = 60.54152
 d = 0.51671

Bead 2747

Date : Mon Oct 17 13:30:03 PDT 2022
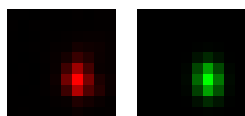Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 24.0 um (x), -55.9 um (y), 60.7 um (z)
Corresponding bead : Not found

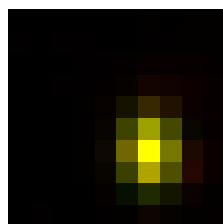| FWHM	Non corrected	Corrected	Theoretical
min	401 nm	414 nm	223 nm
max	542 nm	560 nm	223 nm
z	1.28 um	1.28 um	885 nm
Asymmetry	0.739		
Theta	-86.6°		

XY profile & fitting parameters :

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

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

$R^2 = 0.982$

Parameters:
A = 2082.062   (brightness)
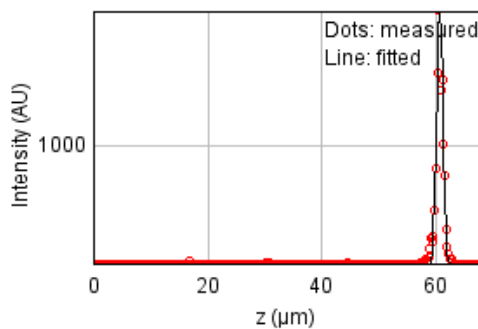B = 127.161   (background)
a = 0.834 px
b = -0.023 px
c = 0.458 px

xc = 6.043 px
yc = 6.008 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 405429.642
Standard deviation: 36.34030
R^2: 0.97362
Parameters:
 a = 116.76333
 b = 1992.64514
 c = 60.71573
 d = 0.54315

Bead 2748

Date : Mon Oct 17 13:30:04 PDT 2022
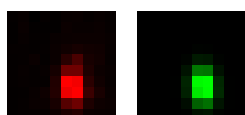Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

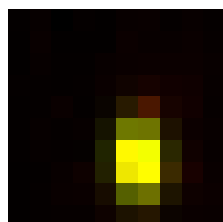Coordinates : -127 um (x), -71.6 um (y), 60.6 um (z)
Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	376 nm	388 nm	223 nm
max	579 nm	599 nm	223 nm
z	1.24 um	1.25 um	885 nm
Asymmetry	0.648		
Theta	-86.7°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
$R^2 = 0.983$

Parameters:
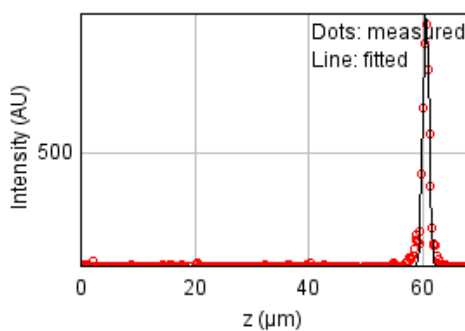A = 1218.467   (brightness)
B = 123.860   (background)
a = 0.949 px
b = -0.032 px
c = 0.401 px

xc = 5.529 px
yc = 6.449 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 57483.0724
Standard deviation: 13.68361
R^2: 0.98188
Parameters:
a = 113.64603
b = 981.23406
c = 60.57369
d = 0.52837

Bead 2749

Date : Mon Oct 17 13:30:04 PDT 2022
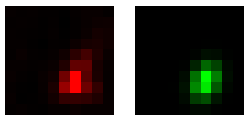Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

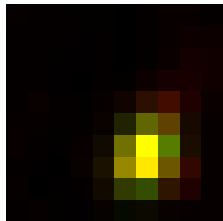Coordinates : 101 um (x), 95.6 um (y), 61.0 um (z)
Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	403 nm	416 nm	223 nm
max	548 nm	566 nm	223 nm
z	1.37 um	1.38 um	885 nm
Asymmetry	0.736		
Theta	66.2°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
  $R^2 = 0.935$

Parameters:
 A = 1009.360   (brightness)
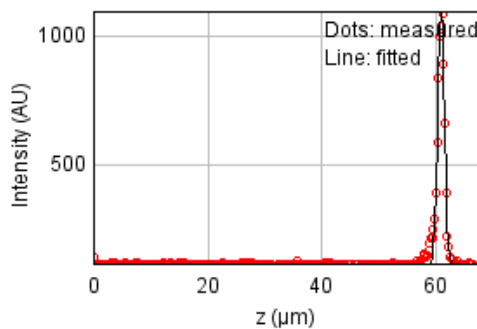 B = 126.083   (background)
 a = 0.766 px
 b = 0.140 px
 c = 0.509 px

 xc = 5.956 px
 yc = 6.416 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 63279.7750
Standard deviation: 14.35699
R^2: 0.98579
Parameters:
 a = 113.90982
 b = 1096.15562
 c = 60.95560
 d = 0.58230

Bead 2750

Date : Mon Oct 17 13:30:04 PDT 2022
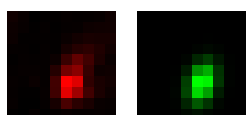Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 103 um (x), 94.4 um (y), 60.8 um (z)
Corresponding bead : Not found

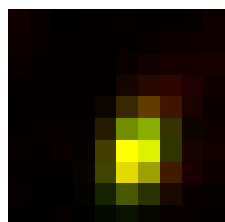| FWHM	Non corrected	Corrected	Theoretical
min	416 nm	431 nm	223 nm
max	633 nm	655 nm	223 nm
z	1.59 um	1.59 um	885 nm
Asymmetry	0.658		
Theta	72.5°		

XY profile & fitting parameters :

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

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

$R^2 = 0.942$

Parameters:
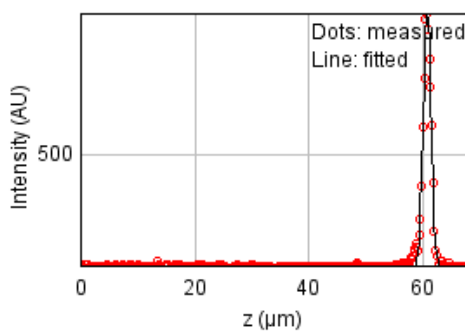A = 948.293 (brightness)
B = 132.817 (background)
a = 0.734 px
b = 0.126 px
c = 0.374 px

xc = 5.440 px
yc = 6.135 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 40755.1996
Standard deviation: 11.52185
R^2: 0.99008
Parameters:
 a = 112.96194
 b = 994.14818
 c = 60.79788
 d = 0.67368

Bead 2751

Date : Mon Oct 17 13:30:04 PDT 2022
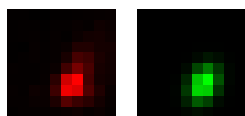Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

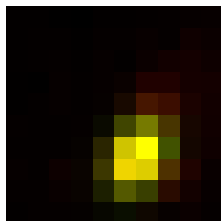Coordinates : 108 um (x), 84.6 um (y), 60.9 um (z)
Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	415 nm	429 nm	223 nm
max	577 nm	597 nm	223 nm
z	1.19 um	1.2 um	885 nm
Asymmetry	0.719		
Theta	62.8°		

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:
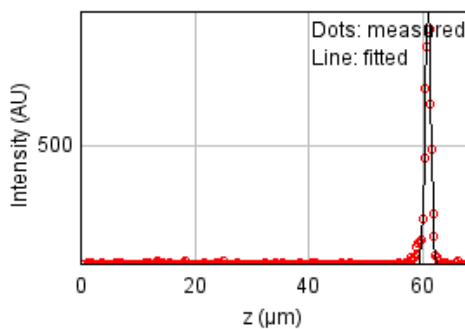A = 1000.315   (brightness)
B = 127.088   (background)
a = 0.701 px
b = 0.153 px
c = 0.481 px

xc = 5.604 px
yc = 6.397 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 34973.0804
Standard deviation: 10.67328
R^2: 0.98735
Parameters:
a = 112.03873
b = 940.96737
c = 60.94146
d = 0.50654

Bead 2752 (Rejected)

Date : Mon Oct 17 13:30:04 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 93.1 um (x), 83.6 um (y), 60.5 um (z)
Corresponding bead : Not found
Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

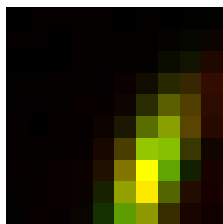| FWHM	Non corrected	Corrected	Theoretical
min	443 nm	457 nm	223 nm
max	1.22 um	1.26 um	223 nm
z	1.59 um	1.6 um	885 nm
Asymmetry	0.363		
Theta	68.7°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)
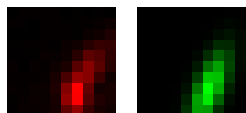
Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
   $R^2 = 0.929$

Parameters:
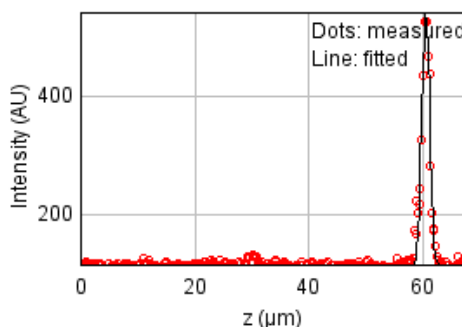 A = 653.832   (brightness)
 B = 127.032   (background)
 a = 0.607 px
 b = 0.201 px
 c = 0.169 px

xc = 6.102 px
yc = 7.109 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 33237.1656
Standard deviation: 10.40502
R^2: 0.96674
Parameters:
 a = 113.63732
 b = 542.67196
 c = 60.54689
 d = 0.67522

Bead 2753

Date : Mon Oct 17 13:30:04 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels
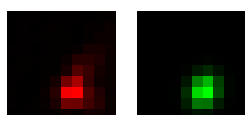
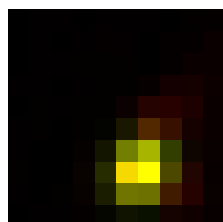Coordinates : 92.3 um (x), 77.9 um (y), 61.3 um (z)
Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	420 nm	434 nm	223 nm
max	502 nm	519 nm	223 nm
z	1.25 um	1.26 um	885 nm
Asymmetry	0.836		
Theta	62.6°		

XY profile & fitting parameters :

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

Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.940

Parameters:
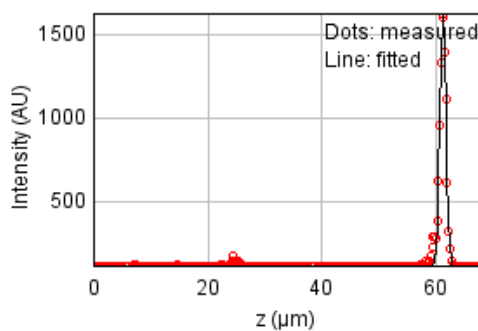A = 1674.381   (brightness)
B = 139.830   (background)
a = 0.713 px
b = 0.094 px
c = 0.580 px

xc = 5.634 px
yc = 6.858 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 120848.624
Standard deviation: 19.84046
R^2: 0.98782
Parameters:
a = 116.35691
b = 1649.19229
c = 61.28177
d = 0.53273

Bead 2754 (Rejected)

Date : Mon Oct 17 13:30:04 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 79.0 um (x), 76.5 um (y), 60.5 um (z)
Corresponding bead : Not found
Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

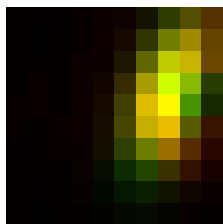| FWHM	Non corrected	Corrected	Theoretical
min	554 nm	573 nm	223 nm
max	1.2 um	1.24 um	223 nm
z	3.29 um	3.3 um	885 nm
Asymmetry	0.462		
Theta	71.9°		

XY profile & fitting parameters :

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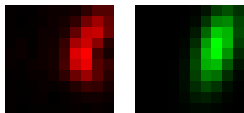
Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
$R^2 = 0.925$

Parameters:
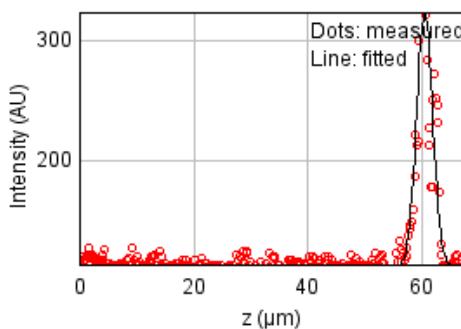A = 668.534   (brightness)
B = 117.741   (background)
a = 0.404 px
b = 0.102 px
c = 0.127 px

xc = 6.999 px
yc = 3.401 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2))
Sum of residuals squared: 78690.4934
Standard deviation: 16.01002
R^2: 0.85598
Parameters:
a = 112.25477
b = 323.96107
c = 60.52700
d = 1.39732

Bead 2755

Date : Mon Oct 17 13:30:04 PDT 2022
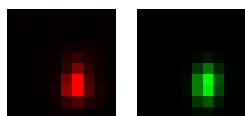Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -19.8 um (x), 72.9 um (y), 60.6 um (z)
Corresponding bead : Not found

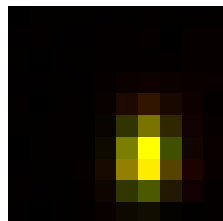| FWHM	Non corrected	Corrected	Theoretical
min	378 nm	391 nm	223 nm
max	553 nm	572 nm	223 nm
z	1.13 um	1.14 um	885 nm
Asymmetry	0.684		
Theta	84.5°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 1590.986   (brightness)
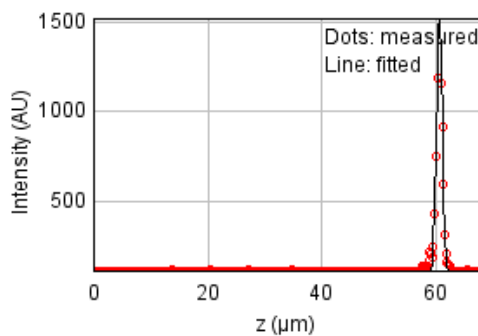 B = 128.741   (background)
 a = 0.933 px
 b = 0.047 px
 c = 0.443 px

xc = 5.855 px
yc = 6.421 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 72418.3739
Standard deviation: 15.35873
R^2: 0.99060
Parameters:
 a = 115.51874
 b = 1535.48912
 c = 60.63959
 d = 0.48169

Bead 2756

Date : Mon Oct 17 13:30:04 PDT 2022
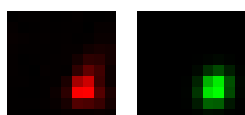Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 97.8 um (x), 68.9 um (y), 61.4 um (z)
Corresponding bead : Not found

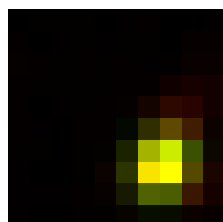| FWHM	Non corrected	Corrected	Theoretical
min	431 nm	445 nm	223 nm
max	514 nm	531 nm	223 nm
z	1.23 um	1.24 um	885 nm
Asymmetry	0.838		
Theta	64.4°		

XY profile & fitting parameters :

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

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

Parameters:
A = 1608.439   (brightness)
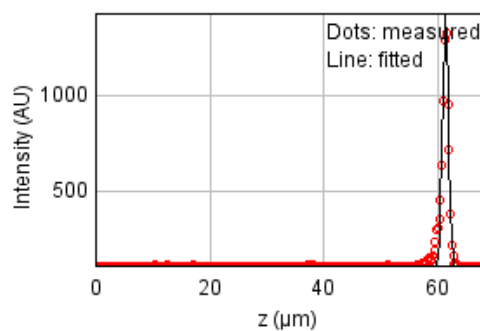B = 133.742   (background)
a = 0.684 px
b = 0.084 px
c = 0.548 px

xc = 6.630 px
yc = 6.630 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 135734.886
Standard deviation: 21.02696
R^2: 0.98091
Parameters:
 a = 115.68457
 b = 1420.13982
 c = 61.37249
 d = 0.52300

Bead 2757

Date : Mon Oct 17 13:30:04 PDT 2022
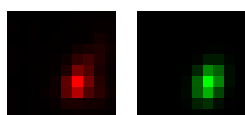Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 95.3 um (x), 69.5 um (y), 61.3 um (z)
Corresponding bead : Not found

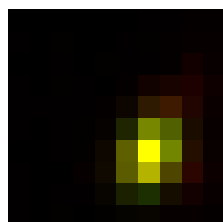| FWHM	Non corrected	Corrected	Theoretical
min	391 nm	404 nm	223 nm
max	557 nm	576 nm	223 nm
z	1.23 um	1.23 um	885 nm
Asymmetry	0.702		
Theta	67.9°		

XY profile & fitting parameters :

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

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

Parameters:
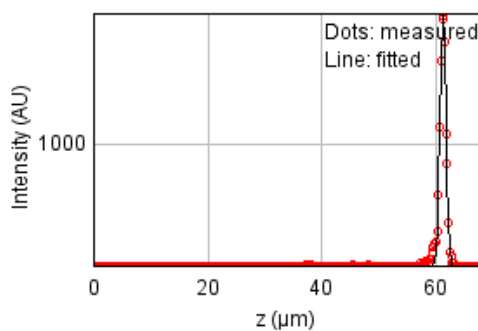 A = 1745.088   (brightness)
 B = 138.819   (background)
 a = 0.816 px
 b = 0.156 px
 c = 0.496 px

xc = 6.079 px
yc = 6.117 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 122812.999
Standard deviation: 20.00106
R^2: 0.99140
Parameters:
 a = 115.68636
 b = 1977.88216
 c = 61.29058
 d = 0.52120

Bead 2758

Date : Mon Oct 17 13:30:04 PDT 2022
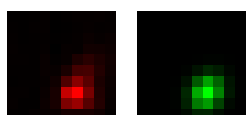Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 119 um (x), 59.6 um (y), 61.1 um (z)
Corresponding bead : Not found

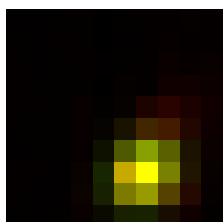| FWHM	Non corrected	Corrected	Theoretical
min	470 nm	486 nm	223 nm
max	562 nm	581 nm	223 nm
z	1.36 um	1.37 um	885 nm
Asymmetry	0.836		
Theta	54.3°		

XY profile & fitting parameters :

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

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

Parameters:
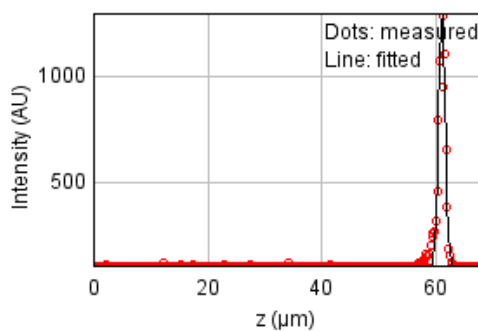 A = 1143.096   (brightness)
 B = 127.573   (background)
 a = 0.545 px
 b = 0.086 px
 c = 0.487 px

xc = 5.877 px
yc = 7.005 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 172140.410
Standard deviation: 23.67948
R^2: 0.97352
Parameters:
 a = 113.20777
 b = 1297.52608
 c = 61.09307
 d = 0.57752

Bead 2759

Date : Mon Oct 17 13:30:04 PDT 2022
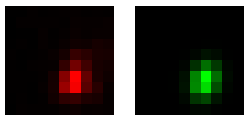Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 150 um (x), 54.0 um (y), 60.8 um (z)
Corresponding bead : Not found

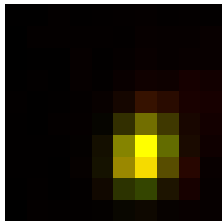| FWHM	Non corrected	Corrected	Theoretical
min	412 nm	426 nm	223 nm
max	534 nm	552 nm	223 nm
z	1.33 um	1.33 um	885 nm
Asymmetry	0.772		
Theta	72.4°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 935.421   (brightness)
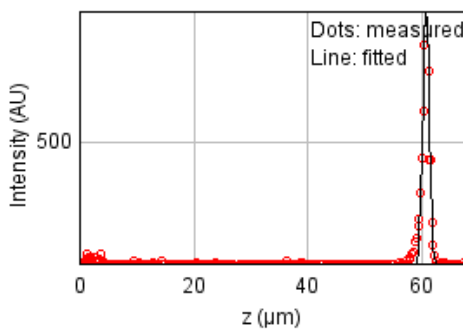 B = 120.440   (background)
 a = 0.761 px
 b = 0.092 px
 c = 0.500 px

xc = 5.890 px
yc = 6.365 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 77410.3191
Standard deviation: 15.87926
R^2: 0.97357
Parameters:
 a = 112.77106
 b = 916.92600
 c = 60.76898
 d = 0.56399

Bead 2760

Date : Mon Oct 17 13:30:04 PDT 2022
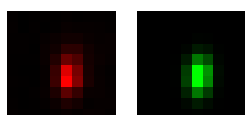Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -77.0 um (x), 49.4 um (y), 60.5 um (z)
Corresponding bead : Not found

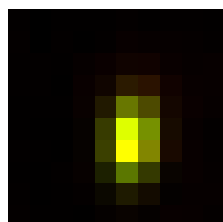| FWHM	Non corrected	Corrected	Theoretical
min	362 nm	375 nm	223 nm
max	596 nm	616 nm	223 nm
z	1.12 um	1.13 um	885 nm
Asymmetry	0.609		
Theta	86.3°		

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 = 0.978

Parameters:
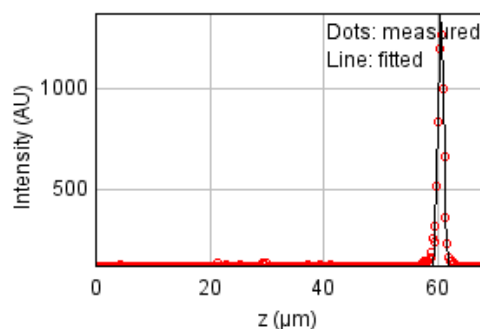A = 1539.567   (brightness)
B = 134.839   (background)
a = 1.019 px
b = 0.041 px
c = 0.381 px

xc = 5.204 px
yc = 5.477 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 50670.6045
Standard deviation: 12.84721
R^2: 0.99164
Parameters:
a = 116.07007
b = 1382.65745
c = 60.54248
d = 0.47664

Bead 2761

Date : Mon Oct 17 13:30:04 PDT 2022
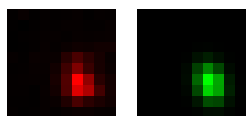Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

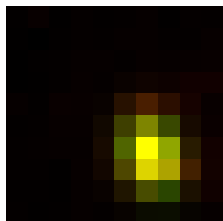Coordinates : 125 um (x), 18.4 um (y), 61.1 um (z)
Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	435 nm	450 nm	223 nm
max	583 nm	603 nm	223 nm
z	1.5 um	1.51 um	885 nm
Asymmetry	0.747		
Theta	-73.3°		

XY profile & fitting parameters :

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

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

Parameters:
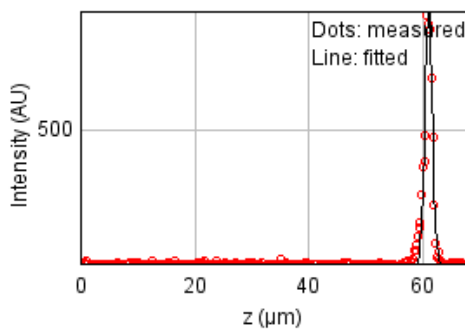 A = 775.533   (brightness)
 B = 118.400   (background)
 a = 0.682 px
 b = -0.086 px
 c = 0.421 px

xc = 6.221 px
yc = 6.322 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 83277.6927
Standard deviation: 16.47006
R^2: 0.97077
Parameters:
 a = 112.08848
 b = 857.85778
 c = 61.05163
 d = 0.63866

Bead 2762

Date : Mon Oct 17 13:30:04 PDT 2022
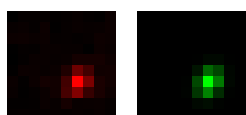Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -163 um (x), -8.59 um (y), 60.0 um (z)
Corresponding bead : Not found

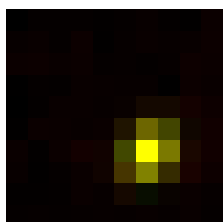| FWHM	Non corrected	Corrected	Theoretical
min	348 nm	360 nm	223 nm
max	440 nm	455 nm	223 nm
z	1.28 um	1.28 um	885 nm
Asymmetry	0.79		
Theta	60.0°		

XY profile & fitting parameters :

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

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

Parameters:
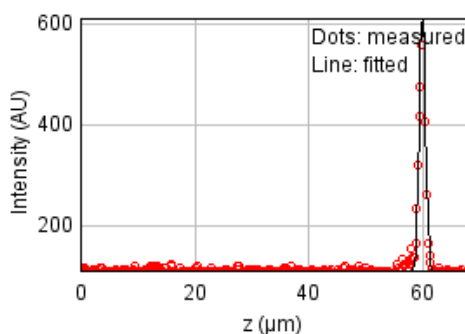 A = 524.601   (brightness)
 B = 113.800   (background)
 a = 1.005 px
 b = 0.181 px
 c = 0.797 px

  xc = 6.118 px
  yc = 6.050 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 34327.1967
Standard deviation: 10.57426
R^2: 0.96973
Parameters:
 a = 110.71772
 b = 619.59824
 c = 59.96010
 d = 0.54258

Bead 2763

Date : Mon Oct 17 13:30:04 PDT 2022
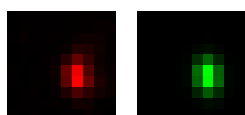Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -2.86 um (x), -28.3 um (y), 60.8 um (z)
Corresponding bead : Not found

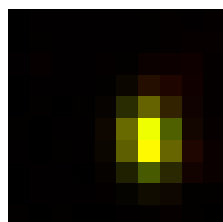| FWHM	Non corrected	Corrected	Theoretical
min	379 nm	392 nm	223 nm
max	524 nm	541 nm	223 nm
z	1.3 um	1.3 um	885 nm
Asymmetry	0.723		
Theta	-84.7°		

XY profile & fitting parameters :

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

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

Parameters:
A = 1701.521   (brightness)
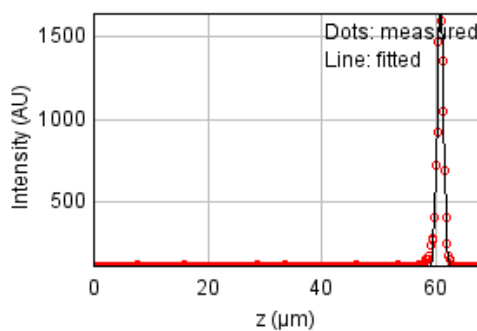B = 130.833   (background)
a = 0.931 px
b = -0.041 px
c = 0.493 px

xc = 5.995 px
yc = 5.470 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 85056.1806
Standard deviation: 16.64500
R^2: 0.99182
Parameters:
 a = 115.04253
 b = 1661.44353
 c = 60.82316
 d = 0.55087

Bead 2764

Date : Mon Oct 17 13:30:04 PDT 2022
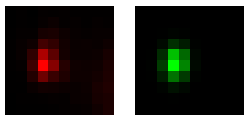Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 74.2 um (x), -29.0 um (y), 61.4 um (z)
Corresponding bead : Not found

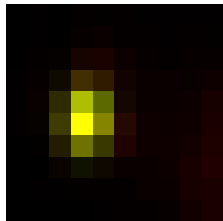| FWHM	Non corrected	Corrected	Theoretical
min	358 nm	370 nm	223 nm
max	494 nm	511 nm	223 nm
z	1.29 um	1.29 um	885 nm
Asymmetry	0.723		
Theta	87.1°		

XY profile & fitting parameters :

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

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

$R^2 = 0.946$

Parameters:
A = 2230.944   (brightness)
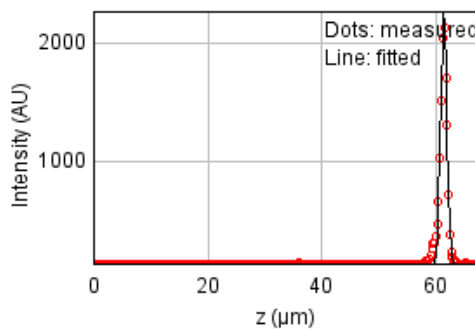B = 184.460   (background)
a = 1.048 px
b = 0.025 px
c = 0.550 px

xc = 3.194 px
yc = 4.758 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 164184.688
Standard deviation: 23.12582
R^2: 0.99188
Parameters:
 a = 114.82296
 b = 2279.07519
 c = 61.41336
 d = 0.54725

Bead 2765

Date : Mon Oct 17 13:30:04 PDT 2022
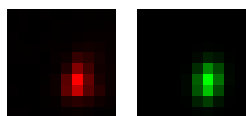Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 21.8 um (x), -29.5 um (y), 61.1 um (z)
Corresponding bead : Not found

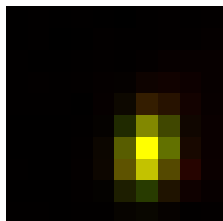| FWHM	Non corrected	Corrected	Theoretical
min	380 nm	393 nm	223 nm
max	552 nm	570 nm	223 nm
z	1.11 um	1.12 um	885 nm
Asymmetry	0.689		
Theta	80.2°		

XY profile & fitting parameters :

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

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

Parameters:
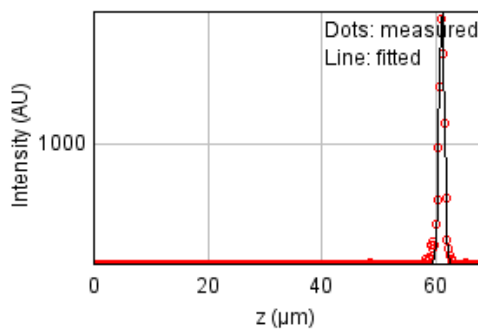 A = 1888.822   (brightness)
 B = 135.418   (background)
 a = 0.916 px
 b = 0.082 px
 c = 0.455 px

xc = 6.036 px
yc = 6.189 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 129762.908
Standard deviation: 20.55919
R^2: 0.99033
Parameters:
 a = 115.86281
 b = 2007.17456
 c = 61.08107
 d = 0.47284

Bead 2766

Date : Mon Oct 17 13:30:04 PDT 2022
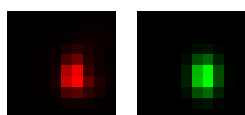Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 28.3 um (x), -31.4 um (y), 61.5 um (z)
Corresponding bead : Not found

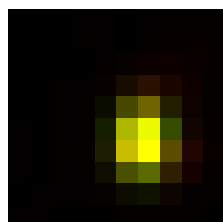| FWHM	Non corrected	Corrected	Theoretical
min	419 nm	433 nm	223 nm
max	549 nm	567 nm	223 nm
z	1.17 um	1.18 um	885 nm
Asymmetry	0.764		
Theta	89.6°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 2362.411   (brightness)
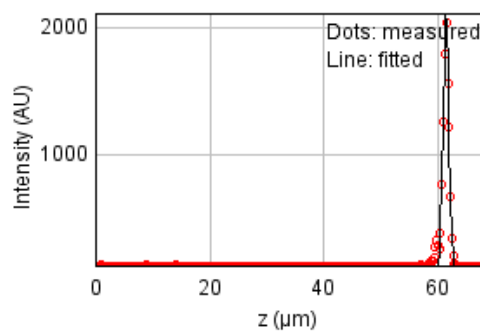 B = 133.553   (background)
 a = 0.764 px
 b = 0.002 px
 c = 0.446 px

xc = 5.704 px
yc = 5.522 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 139883.821
Standard deviation: 21.34590
R^2: 0.99134
Parameters:
 a = 116.35425
 b = 2140.08999
 c = 61.45826
 d = 0.49817

Bead 2767

Date : Mon Oct 17 13:30:04 PDT 2022
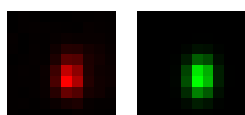Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 133 um (x), -33.6 um (y), 60.4 um (z)
Corresponding bead : Not found

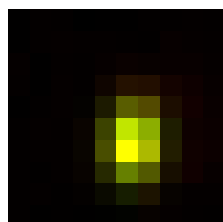| FWHM	Non corrected	Corrected	Theoretical
min	420 nm	435 nm	223 nm
max	582 nm	601 nm	223 nm
z	1.21 um	1.21 um	885 nm
Asymmetry	0.722		
Theta	86.4°		

XY profile & fitting parameters :

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

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

R^2 = 0.978

Parameters:
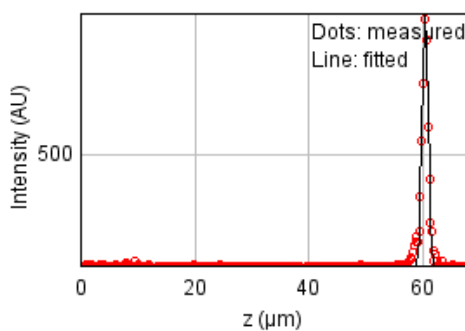A = 1194.861   (brightness)
B = 127.265   (background)
a = 0.758 px
b = 0.023 px
c = 0.398 px

xc = 5.297 px
yc = 5.617 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 52927.8787
Standard deviation: 13.13025
R^2: 0.98339
Parameters:
 a = 112.02968
 b = 994.98780
 c = 60.43295
 d = 0.51260

Bead 2768

Date : Mon Oct 17 13:30:04 PDT 2022
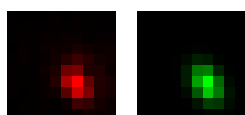Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 158 um (x), -49.8 um (y), 60.8 um (z)
Corresponding bead : Not found

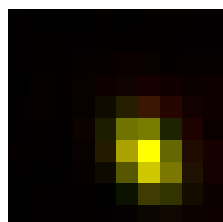| FWHM	Non corrected	Corrected	Theoretical
min	411 nm	425 nm	223 nm
max	604 nm	625 nm	223 nm
z	1.25 um	1.26 um	885 nm
Asymmetry	0.68		
Theta	-58.5°		

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:
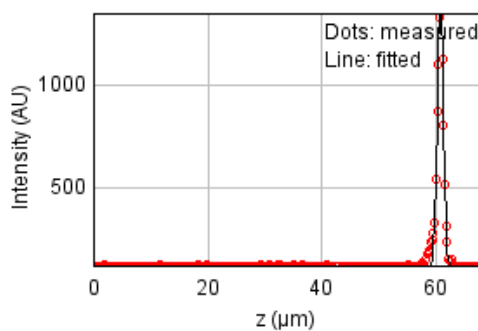A = 1251.274   (brightness)
B = 127.703   (background)
a = 0.678 px
b = -0.190 px
c = 0.484 px

xc = 5.894 px
yc = 6.206 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 69993.9279
Standard deviation: 15.09945
R^2: 0.98956
Parameters:
a = 111.91825
b = 1374.67832
c = 60.82163
d = 0.53110

Bead 2769 (Rejected)

Date : Mon Oct 17 13:30:04 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels
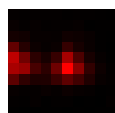
Coordinates : -74.1 um (x), -53.9 um (y), 61.1 um (z)
Corresponding bead : Not found
Reason of rejection : R or C parameter off limits.

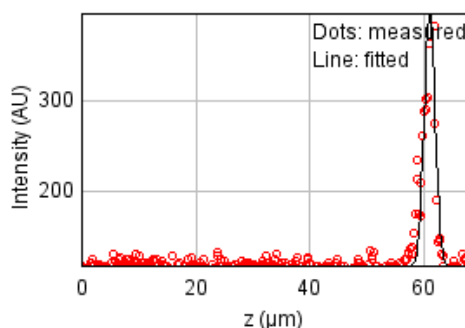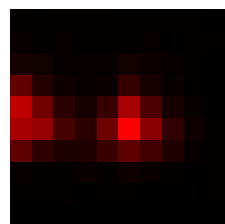| FWHM	Non corrected	Corrected	Theoretical
min	0	0	223 nm
max	0	0	223 nm
z	2.24 um	2.25 um	885 nm
Asymmetry	0.0		
Theta	0.0°		

XY profile & fitting parameters :

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

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

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 67057.8286
Standard deviation: 14.77936
R^2: 0.89835
Parameters:
 a = 114.94199
 b = 400.30630
 c = 61.06491
 d = 0.95063

Bead 2770

Date : Mon Oct 17 13:30:04 PDT 2022
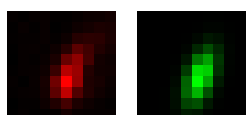Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 81.5 um (x), 93.4 um (y), 60.8 um (z)
Corresponding bead : Not found

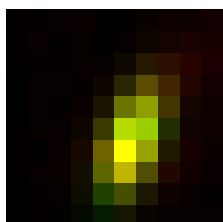| FWHM	Non corrected	Corrected	Theoretical
min	415 nm	429 nm	223 nm
max	876 nm	905 nm	223 nm
z	1.69 um	1.69 um	885 nm
Asymmetry	0.474		
Theta	70.2°		

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
   $R^2 = 0.947$

Parameters:
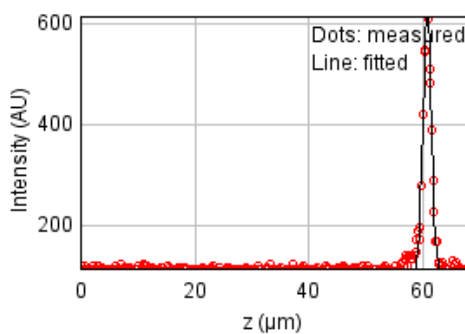 A = 694.597   (brightness)
 B = 131.362   (background)
 a = 0.709 px
 b = 0.193 px
 c = 0.244 px

xc = 5.295 px
yc = 5.565 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 34471.8879
Standard deviation: 10.59652
R^2: 0.97603
Parameters:
 a = 113.99304
 b = 616.61373
 c = 60.79959
 d = 0.71666

Bead 2771

Date : Mon Oct 17 13:30:04 PDT 2022
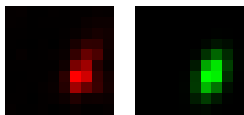Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 84.6 um (x), 91.3 um (y), 61.1 um (z)
Corresponding bead : Not found

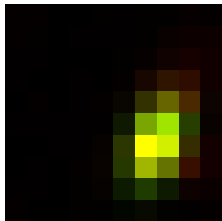| FWHM	Non corrected	Corrected	Theoretical
min	389 nm	402 nm	223 nm
max	655 nm	677 nm	223 nm
z	1.54 um	1.54 um	885 nm
Asymmetry	0.594		
Theta	68.7°		

XY profile & fitting parameters :

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

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

$R^2 = 0.937$

Parameters:
A = 1236.203   (brightness)
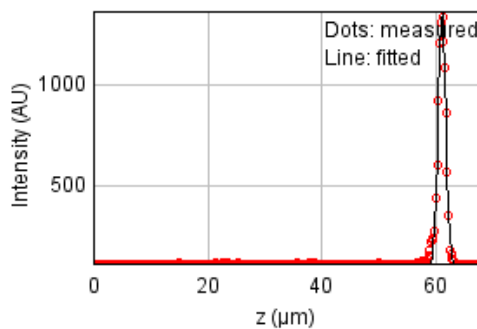B = 127.587   (background)
a = 0.811 px
b = 0.194 px
c = 0.388 px

xc = 6.507 px
yc = 5.804 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 58003.9952
Standard deviation: 13.74548
R^2: 0.99275
Parameters:
a = 113.48547
b = 1364.09934
c = 61.11369
d = 0.65284

Bead 2772

Date : Mon Oct 17 13:30:04 PDT 2022
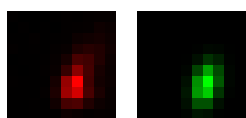Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

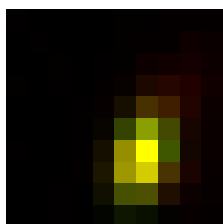Coordinates : 54.7 um (x), 88.2 um (y), 61.5 um (z)
Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	393 nm	407 nm	223 nm
max	657 nm	680 nm	223 nm
z	1.21 um	1.21 um	885 nm
Asymmetry	0.598		
Theta	74.4°		

XY profile & fitting parameters :

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

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

Parameters:
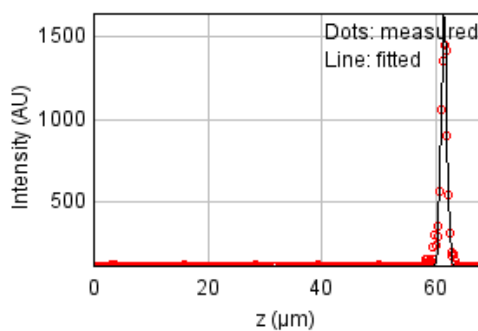A = 1657.841   (brightness)
B = 141.576   (background)
a = 0.827 px
b = 0.144 px
c = 0.351 px

xc = 5.808 px
yc = 6.252 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 154274.980
Standard deviation: 22.41706
R^2: 0.98408
Parameters:
a = 115.35670
b = 1655.67959
c = 61.46244
d = 0.51277

Bead 2773

Date : Mon Oct 17 13:30:04 PDT 2022
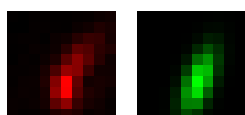Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 93.1 um (x), 83.6 um (y), 60.5 um (z)
Corresponding bead : Not found

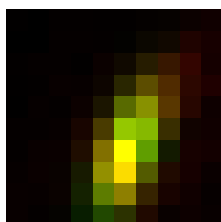| FWHM	Non corrected	Corrected	Theoretical
min	429 nm	444 nm	223 nm
max	1.05 um	1.08 um	223 nm
z	1.59 um	1.6 um	885 nm
Asymmetry	0.41		
Theta	69.3°		

XY profile & fitting parameters :

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

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

$R^2 = 0.911$

Parameters:
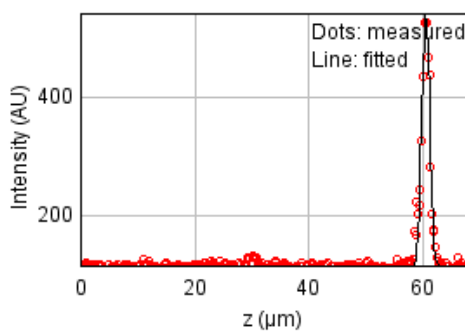A = 673.375 (brightness)
B = 137.293 (background)
a = 0.652 px
b = 0.200 px
c = 0.198 px

xc = 5.138 px
yc = 5.976 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 33237.1656
Standard deviation: 10.40502
R^2: 0.96674
Parameters:
a = 113.63732
b = 542.67196
c = 60.54689
d = 0.67522

Bead 2774

Date : Mon Oct 17 13:30:04 PDT 2022
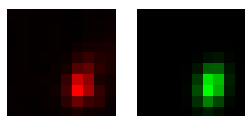Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 103 um (x), 69.8 um (y), 61.2 um (z)
Corresponding bead : Not found

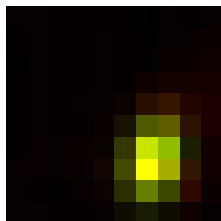| FWHM	Non corrected	Corrected	Theoretical
min	402 nm	415 nm	223 nm
max	594 nm	614 nm	223 nm
z	1.46 um	1.47 um	885 nm
Asymmetry	0.677		
Theta	76.7°		

XY profile & fitting parameters :

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

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

Parameters:
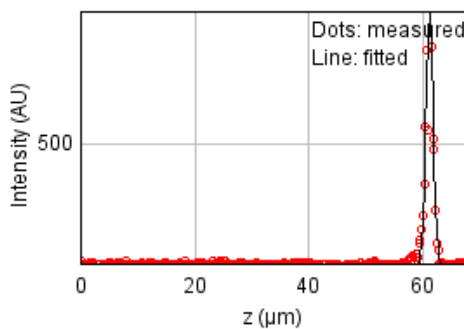 A = 903.677   (brightness)
 B = 123.069   (background)
 a = 0.807 px
 b = 0.101 px
 c = 0.405 px

xc = 6.313 px
yc = 6.559 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 184189.131
Standard deviation: 24.49417
R^2: 0.94638
Parameters:
 a = 113.00642
 b = 932.33568
 c = 61.21942
 d = 0.62130

Bead 2775

Date : Mon Oct 17 13:30:04 PDT 2022
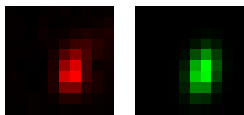Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 144 um (x), 53.3 um (y), 60.6 um (z)
Corresponding bead : Not found

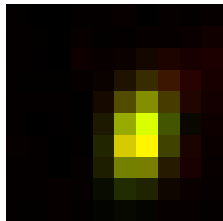| FWHM	Non corrected	Corrected	Theoretical
min	415 nm	429 nm	223 nm
max	685 nm	708 nm	223 nm
z	1.31 um	1.32 um	885 nm
Asymmetry	0.607		
Theta	77.1°		

XY profile & fitting parameters :

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

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

Parameters:
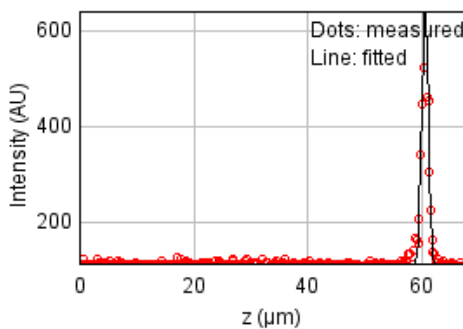 A = 710.882   (brightness)
 B = 120.713   (background)
 a = 0.753 px
 b = 0.107 px
 c = 0.311 px

xc = 5.696 px
yc = 5.540 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 35250.2272
Standard deviation: 10.71548
R^2: 0.97268
Parameters:
 a = 111.76908
 b = 648.54211
 c = 60.59179
 d = 0.55677

Bead 2776 (Rejected)

Date : Mon Oct 17 13:30:04 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 74.4 um (x), 44.7 um (y), 61.8 um (z)
Corresponding bead : Not found
Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

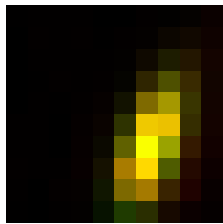| FWHM	Non corrected	Corrected	Theoretical
min	415 nm	429 nm	223 nm
max	1.01 um	1.05 um	223 nm
z	1.42 um	1.42 um	885 nm
Asymmetry	0.41		
Theta	70.6°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)
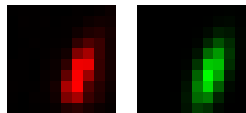
Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
    $R^2 = 0.967$

Parameters:
 A = 1665.495   (brightness)
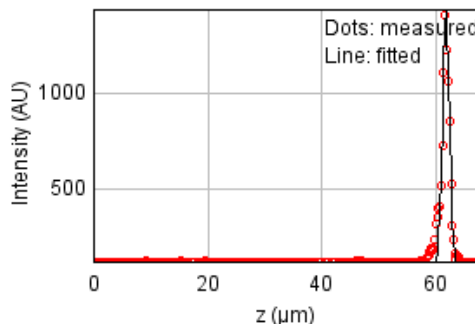 B = 131.821   (background)
 a = 0.708 px
 b = 0.204 px
 c = 0.203 px

xc = 6.221 px
yc = 5.867 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 221629.165
Standard deviation: 26.86855
R^2: 0.97383
Parameters:
 a = 116.17106
 b = 1441.34655
 c = 61.80047
 d = 0.60186

Bead 2777

Date : Mon Oct 17 13:30:04 PDT 2022
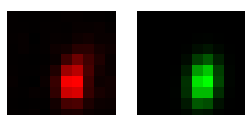Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 95.4 um (x), 7.69 um (y), 60.9 um (z)
Corresponding bead : Not found

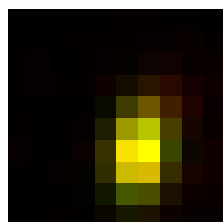| FWHM	Non corrected	Corrected	Theoretical
min	432 nm	446 nm	223 nm
max	697 nm	721 nm	223 nm
z	1.45 um	1.45 um	885 nm
Asymmetry	0.62		
Theta	81.7°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 1086.232   (brightness)
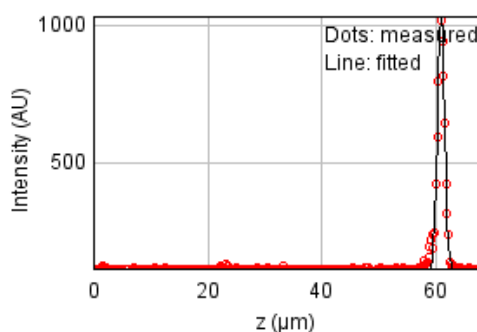 B = 124.748   (background)
 a = 0.710 px
 b = 0.063 px
 c = 0.285 px

xc = 5.587 px
yc = 6.037 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 52921.0574
Standard deviation: 13.12941
R^2: 0.98700
Parameters:
 a = 114.74231
 b = 1030.77409
 c = 60.94628
 d = 0.61429

Bead 2778

Date : Mon Oct 17 13:30:04 PDT 2022
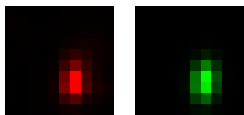Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -8.17 um (x), -4.27 um (y), 61.4 um (z)
Corresponding bead : Not found

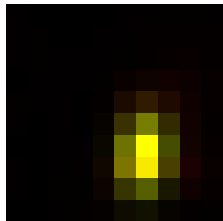| FWHM	Non corrected	Corrected	Theoretical
min	365 nm	377 nm	223 nm
max	581 nm	600 nm	223 nm
z	1.06 um	1.06 um	885 nm
Asymmetry	0.628		
Theta	84.4°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
   $R^2 = 0.983$

Parameters:
 A = 2747.799   (brightness)
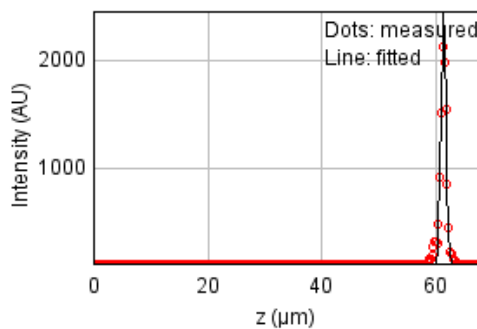 B = 144.630   (background)
 a = 1.003 px
 b = 0.059 px
 c = 0.404 px

xc = 5.881 px
yc = 6.401 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 257615.949
Standard deviation: 28.96791
R^2: 0.98675
Parameters:
 a = 117.34495
 b = 2447.30663
 c = 61.36994
 d = 0.44908

Bead 2779

Date : Mon Oct 17 13:30:04 PDT 2022
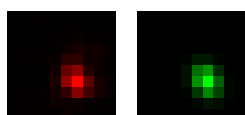Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -105 um (x), -30.6 um (y), 60.9 um (z)
Corresponding bead : Not found

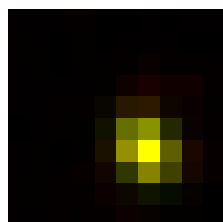| FWHM	Non corrected	Corrected	Theoretical
min	393 nm	406 nm	223 nm
max	501 nm	518 nm	223 nm
z	1.2 um	1.2 um	885 nm
Asymmetry	0.784		
Theta	-60.6°		

XY profile & fitting parameters :

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

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

$R^2 = 0.980$

Parameters:
A = 1336.328   (brightness)
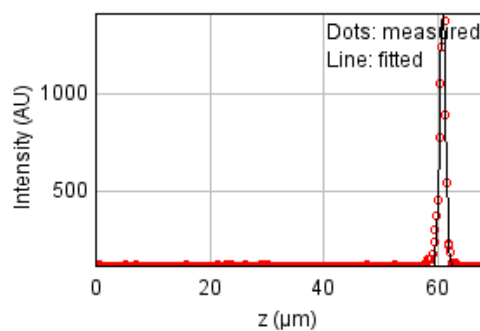B = 124.161   (background)
a = 0.789 px
b = -0.143 px
c = 0.615 px

xc = 5.850 px
yc = 5.921 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 116539.184
Standard deviation: 19.48349
R^2: 0.98318
Parameters:
a = 114.38646
b = 1420.32258
c = 60.88256
d = 0.50929

Bead 2780 (Rejected)

Date : Mon Oct 17 13:30:04 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels
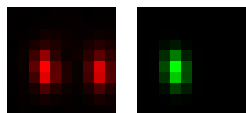
Coordinates : -75.5 um (x), -53.5 um (y), 60.8 um (z)
Corresponding bead : Not found
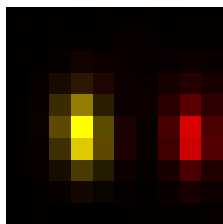Reason of rejection : R or C parameter off limits.

FWHM	Non corrected	Corrected	Theoretical
min	328 nm	339 nm	223 nm
max	535 nm	553 nm	223 nm
z	1.23 um	1.23 um	885 nm
Asymmetry	0.614		
Theta	-82.7°		

XY profile & fitting parameters :

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

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

$R^2 = 0.539$

Parameters:
 A = 1577.421   (brightness)
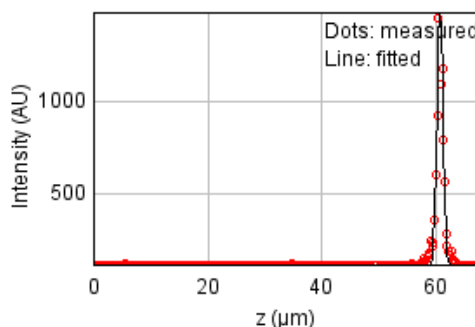 B = 219.278   (background)
 a = 1.234 px
 b = -0.098 px
 c = 0.482 px

xc = 3.028 px
yc = 5.257 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 233933.806
Standard deviation: 27.60434
R^2: 0.97034
Parameters:
 a = 115.58164
 b = 1482.99276
 c = 60.75903
 d = 0.52226

Bead 2781

Date : Mon Oct 17 13:30:04 PDT 2022
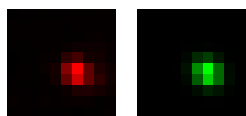Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 110 um (x), -54.9 um (y), 61.3 um (z)
Corresponding bead : Not found

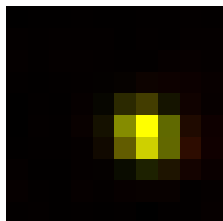| FWHM	Non corrected	Corrected	Theoretical
min	388 nm	401 nm	223 nm
max	445 nm	460 nm	223 nm
z	1.28 um	1.28 um	885 nm
Asymmetry	0.87		
Theta	-35.4°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
   $R^2 = 0.983$

Parameters:
 A = 1647.042   (brightness)
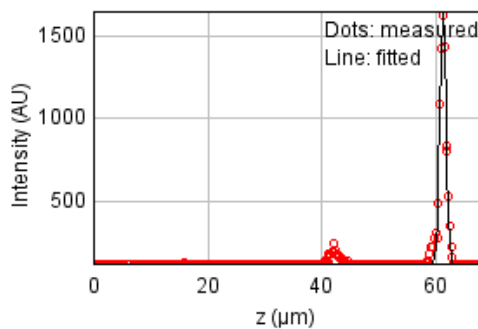 B = 128.406   (background)
 a = 0.749 px
 b = -0.102 px
 c = 0.821 px

xc = 5.953 px
yc = 5.366 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 284383.521
Standard deviation: 30.43568
R^2: 0.97287
Parameters:
 a = 118.48191
 b = 1669.14117
 c = 61.28457
 d = 0.54169

Bead 2782

Date : Mon Oct 17 13:30:04 PDT 2022
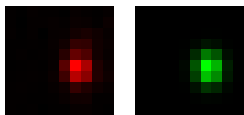Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -54.5 um (x), -55.9 um (y), 60.7 um (z)
Corresponding bead : Not found

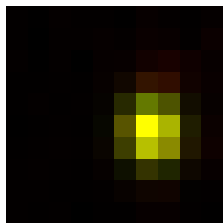| FWHM	Non corrected	Corrected	Theoretical
min	428 nm	442 nm	223 nm
max	508 nm	525 nm	223 nm
z	1.44 um	1.44 um	885 nm
Asymmetry	0.842		
Theta	-86.9°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 1269.065   (brightness)
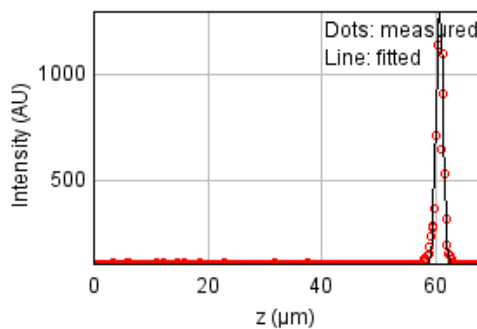 B = 125.353   (background)
 a = 0.733 px
 b = -0.012 px
 c = 0.520 px

xc = 6.262 px
yc = 5.229 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 529138.496
Standard deviation: 41.51600
R^2: 0.92596
Parameters:
 a = 114.30691
 b = 1292.69894
 c = 60.68826
 d = 0.61100

Bead 2783

Date : Mon Oct 17 13:30:04 PDT 2022
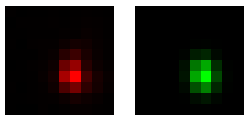Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 66.8 um (x), -68.4 um (y), 61.5 um (z)
Corresponding bead : Not found

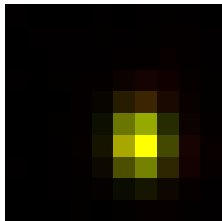| FWHM	Non corrected	Corrected	Theoretical
min	397 nm	410 nm	223 nm
max	495 nm	511 nm	223 nm
z	1.14 um	1.15 um	885 nm
Asymmetry	0.802		
Theta	-83.8°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
   $R^2 = 0.982$

 Parameters:
  A = 2294.964   (brightness)
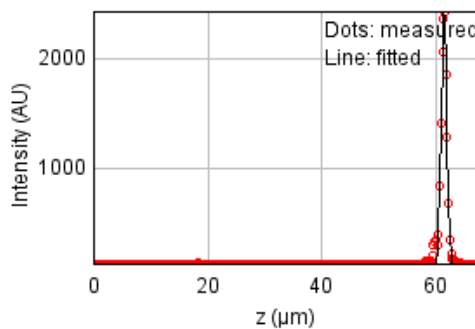 B = 135.334   (background)
  a = 0.850 px
  b = -0.033 px
  c = 0.552 px

  xc = 5.745 px
  yc = 5.861 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 163982.375
Standard deviation: 23.11157
R^2: 0.99227
Parameters:
 a = 116.57529
 b = 2467.18273
 c = 61.46166
 d = 0.48502

Bead 2784

Date : Mon Oct 17 13:30:04 PDT 2022
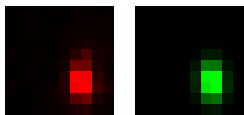Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -127 um (x), -71.6 um (y), 60.6 um (z)
Corresponding bead : Not found

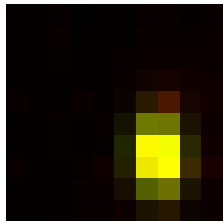| FWHM	Non corrected	Corrected	Theoretical
min	377 nm	389 nm	223 nm
max	581 nm	601 nm	223 nm
z	1.24 um	1.25 um	885 nm
Asymmetry	0.649		
Theta	-86.7°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
  $R^2 = 0.982$

Parameters:
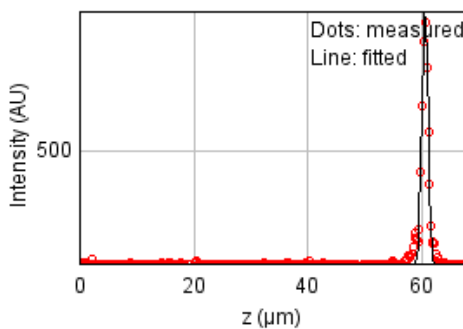 A = 1217.419   (brightness)
 B = 122.603   (background)
 a = 0.943 px
 b = -0.032 px
 c = 0.399 px

xc = 6.529 px
yc = 6.449 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 57483.0724
Standard deviation: 13.68361
R^2: 0.98188
Parameters:
 a = 113.64603
 b = 981.23406
 c = 60.57369
 d = 0.52837

Bead 2785

Date : Mon Oct 17 13:30:05 PDT 2022
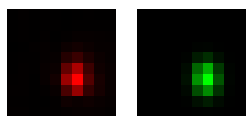Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 127 um (x), -76.3 um (y), 61.2 um (z)
Corresponding bead : Not found

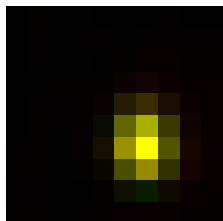| FWHM	Non corrected	Corrected	Theoretical
min	401 nm	415 nm	223 nm
max	521 nm	539 nm	223 nm
z	1.29 um	1.3 um	885 nm
Asymmetry	0.77		
Theta	-88.2°		

XY profile & fitting parameters :

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

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

  $R^2 = 0.987$

Parameters:
 A = 1803.042   (brightness)
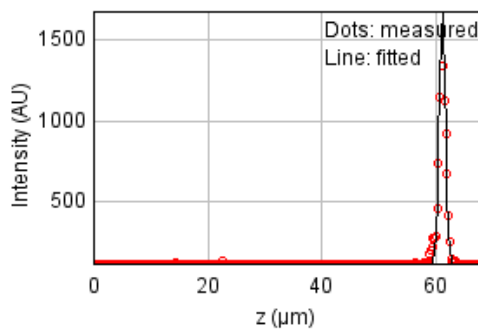 B = 127.241   (background)
 a = 0.834 px
 b = -0.011 px
 c = 0.495 px

xc = 5.838 px
yc = 5.873 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 242154.898
Standard deviation: 28.08519
R^2: 0.97746
Parameters:
 a = 112.68613
 b = 1676.72466
 c = 61.17231
 d = 0.54863

Bead 2786

Date : Mon Oct 17 13:30:05 PDT 2022
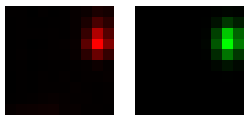Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -62.7 um (x), 84.3 um (y), 62.5 um (z)
Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	384 nm	397 nm	223 nm
max	509 nm	526 nm	223 nm
z	1.29 um	1.3 um	885 nm
Asymmetry	0.754		
Theta	86.9°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
$R^2 = 0.982$

Parameters:
A = 2145.055   (brightness)
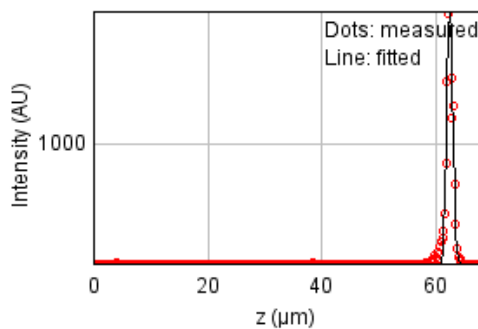B = 130.087   (background)
a = 0.910 px
b = 0.021 px
c = 0.520 px

xc = 8.106 px
yc = 2.739 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 490479.671
Standard deviation: 39.97066
R^2: 0.96785
Parameters:
a = 116.73127
b = 1971.28098
c = 62.48117
d = 0.54854

Bead 2787

Date : Mon Oct 17 13:30:05 PDT 2022
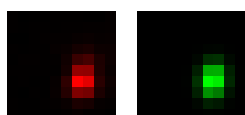Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -69.6 um (x), 79.0 um (y), 61.2 um (z)
Corresponding bead : Not found

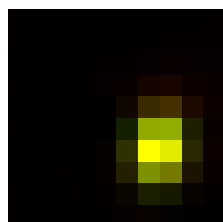| FWHM	Non corrected	Corrected	Theoretical
min	393 nm	406 nm	223 nm
max	530 nm	548 nm	223 nm
z	1.28 um	1.29 um	885 nm
Asymmetry	0.742		
Theta	83.2°		

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 = 0.982

Parameters:
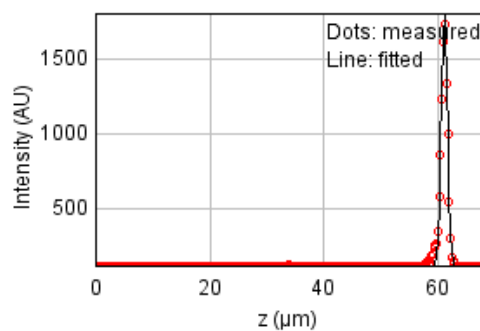A = 1917.759   (brightness)
B = 129.810   (background)
a = 0.863 px
b = 0.046 px
c = 0.484 px

xc = 6.460 px
yc = 5.871 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 86162.1547
Standard deviation: 16.75286
R^2: 0.99301
Parameters:
a = 113.69230
b = 1809.51566
c = 61.18122
d = 0.54393

Bead 2788 (Rejected)

Date : Mon Oct 17 13:30:05 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 79.0 um (x), 76.5 um (y), 60.5 um (z)
Corresponding bead : Not found
Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

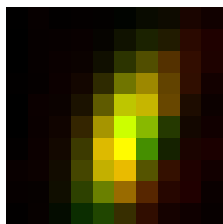| FWHM	Non corrected	Corrected	Theoretical
min	532 nm	550 nm	223 nm
max	1.19 um	1.23 um	223 nm
z	3.29 um	3.3 um	885 nm
Asymmetry	0.446		
Theta	70.4°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)
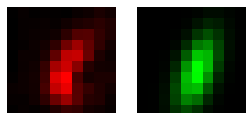
Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
   $R^2 = 0.918$

Parameters:
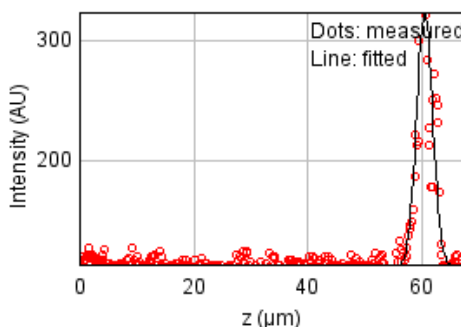 A = 649.019 (brightness)
 B = 137.014 (background)
 a = 0.431 px
 b = 0.120 px
 c = 0.137 px

xc = 5.007 px
yc = 5.427 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 78690.4934
Standard deviation: 16.01002
R^2: 0.85598
Parameters:
 a = 112.25477
 b = 323.96107
 c = 60.52700
 d = 1.39732

Bead 2789

Date : Mon Oct 17 13:30:05 PDT 2022
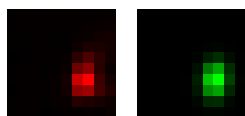Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 67.2 um (x), 73.9 um (y), 61.7 um (z)
Corresponding bead : Not found

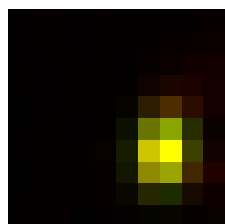| FWHM	Non corrected	Corrected	Theoretical
min	404 nm	418 nm	223 nm
max	553 nm	572 nm	223 nm
z	1.1 um	1.1 um	885 nm
Asymmetry	0.731		
Theta	83.7°		

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
   $R^2 = 0.961$

Parameters:
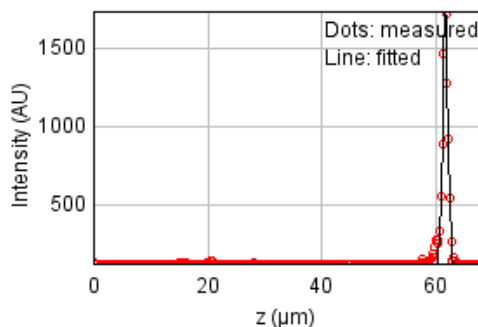 A = 1745.024   (brightness)
 B = 129.034   (background)
 a = 0.817 px
 b = 0.041 px
 c = 0.443 px

xc = 6.659 px
yc = 6.030 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 119486.885
Standard deviation: 19.72836
R^2: 0.98808
Parameters:
 a = 117.11693
 b = 1762.90460
 c = 61.69070
 d = 0.46524

Bead 2790

Date : Mon Oct 17 13:30:05 PDT 2022
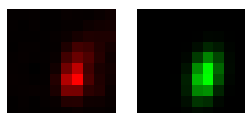Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 107 um (x), 68.3 um (y), 61.0 um (z)
Corresponding bead : Not found

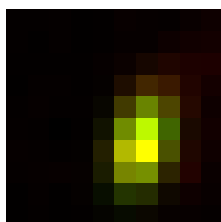| FWHM	Non corrected	Corrected	Theoretical
min	418 nm	432 nm	223 nm
max	706 nm	730 nm	223 nm
z	1.34 um	1.35 um	885 nm
Asymmetry	0.592		
Theta	75.1°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 761.077   (brightness)
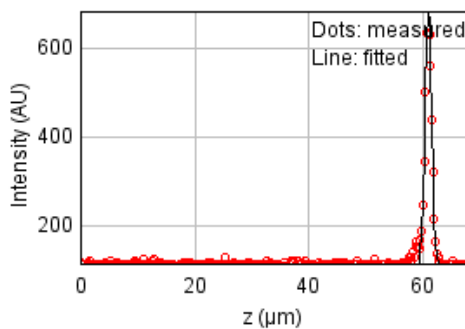 B = 125.732   (background)
 a = 0.737 px
 b = 0.124 px
 c = 0.302 px

xc = 5.782 px
yc = 5.636 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 22219.7875
Standard deviation: 8.50748
R^2: 0.98509
Parameters:
 a = 113.24836
 b = 687.29555
 c = 60.99480
 d = 0.56991

Bead 2791

Date : Mon Oct 17 13:30:05 PDT 2022
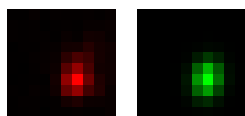Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 113 um (x), 67.3 um (y), 60.9 um (z)
Corresponding bead : Not found

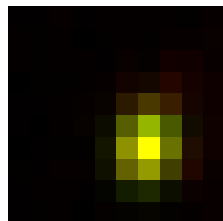| FWHM	Non corrected	Corrected	Theoretical
min	438 nm	453 nm	223 nm
max	570 nm	589 nm	223 nm
z	1.34 um	1.35 um	885 nm
Asymmetry	0.77		
Theta	80.2°		

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
   $R^2 = 0.964$

Parameters:
 A = 964.618   (brightness)
 B = 124.447   (background)
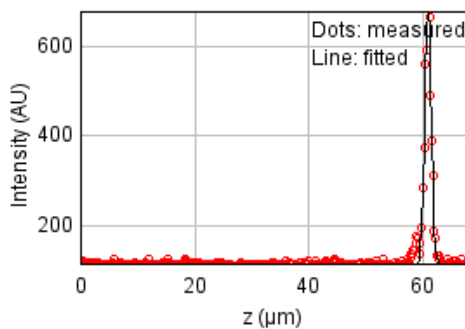 a = 0.690 px
 b = 0.048 px
 c = 0.422 px

xc = 5.913 px
yc = 5.914 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 33585.5115
Standard deviation: 10.45940
R^2: 0.97684
Parameters:
 a = 113.58480
 b = 677.67643
 c = 60.94365
 d = 0.56960

Bead 2792

Date : Mon Oct 17 13:30:05 PDT 2022
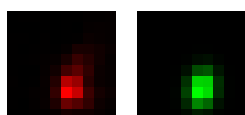Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 76.0 um (x), 62.1 um (y), 61.6 um (z)
Corresponding bead : Not found

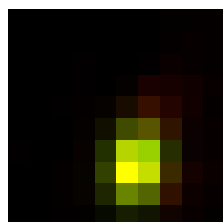| FWHM	Non corrected	Corrected	Theoretical
min	418 nm	433 nm	223 nm
max	571 nm	590 nm	223 nm
z	1.52 um	1.53 um	885 nm
Asymmetry	0.733		
Theta	79.6°		

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 = 0.949

Parameters:
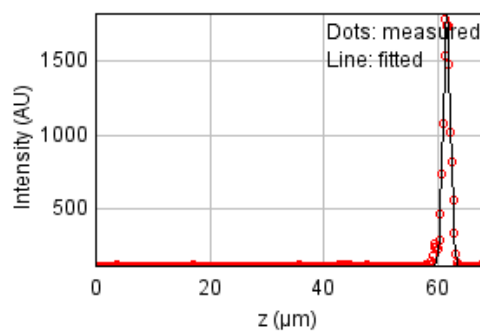A = 1672.590   (brightness)
B = 136.033   (background)
a = 0.755 px
b = 0.063 px
c = 0.423 px

xc = 5.432 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: 107852.397
Standard deviation: 18.74329
R^2: 0.99268
Parameters:
a = 116.12578
b = 1822.56787
c = 61.59956
d = 0.64509

Bead 2793

Date : Mon Oct 17 13:30:05 PDT 2022
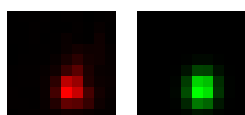Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 72.3 um (x), 59.0 um (y), 61.5 um (z)
Corresponding bead : Not found

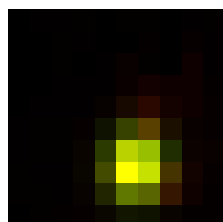| FWHM	Non corrected	Corrected	Theoretical
min	444 nm	459 nm	223 nm
max	531 nm	549 nm	223 nm
z	1.51 um	1.51 um	885 nm
Asymmetry	0.836		
Theta	84.3°		

XY profile & fitting parameters :

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

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

Parameters:
A = 1418.821   (brightness)
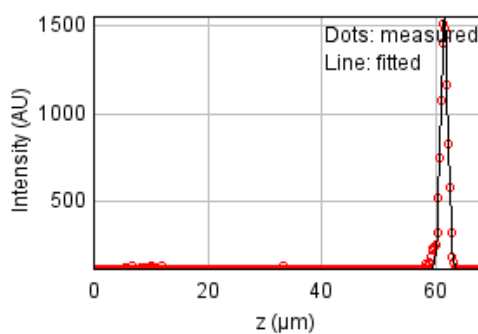B = 133.330   (background)
a = 0.679 px
b = 0.020 px
c = 0.478 px

xc = 5.415 px
yc = 6.691 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 72538.5607
Standard deviation: 15.37147
R^2: 0.99312
Parameters:
a = 114.81605
b = 1564.85320
c = 61.51164
d = 0.63921

Bead 2794

Date : Mon Oct 17 13:30:05 PDT 2022
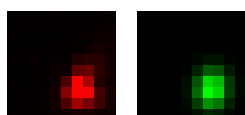Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 88.3 um (x), 55.9 um (y), 61.6 um (z)
Corresponding bead : Not found

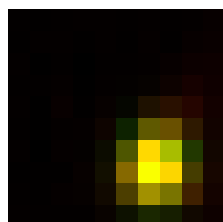| FWHM	Non corrected	Corrected	Theoretical
min	499 nm	516 nm	223 nm
max	606 nm	627 nm	223 nm
z	1.51 um	1.52 um	885 nm
Asymmetry	0.823		
Theta	83.5°		

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
  $R^2 = 0.964$

Parameters:
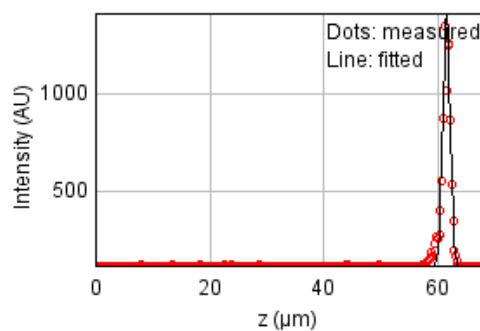 A = 1068.168   (brightness)
 B = 123.188   (background)
 a = 0.537 px
 b = 0.019 px
 c = 0.367 px

xc = 6.342 px
yc = 6.703 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 371896.010
Standard deviation: 34.80499
R^2: 0.95798
Parameters:
 a = 114.12815
 b = 1415.14760
 c = 61.55054
 d = 0.64334

Bead 2795

Date : Mon Oct 17 13:30:05 PDT 2022
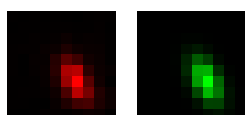Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -108 um (x), 54.1 um (y), 61.4 um (z)
Corresponding bead : Not found

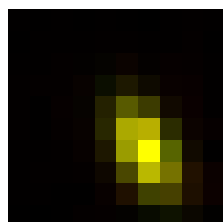| FWHM	Non corrected	Corrected	Theoretical
min	403 nm	417 nm	223 nm
max	742 nm	767 nm	223 nm
z	739 nm	742 nm	885 nm
Asymmetry	0.543		
Theta	-64.1°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
   $R^2 = 0.993$

Parameters:
 A = 1467.614   (brightness)
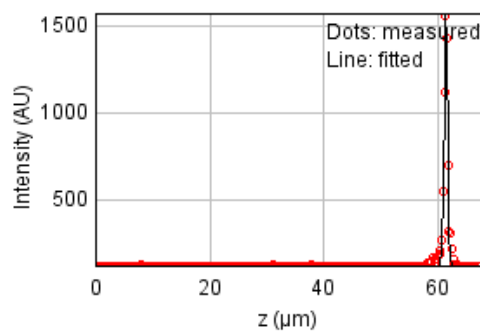 B = 127.397   (background)
 a = 0.715 px
 b = -0.229 px
 c = 0.355 px

   xc = 5.820 px
   yc = 5.918 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 85551.1362
Standard deviation: 16.69336
R^2: 0.98441
Parameters:
 a = 116.09087
 b = 1590.27629
 c = 61.42573
 d = 0.31376

Bead 2796

Date : Mon Oct 17 13:30:05 PDT 2022
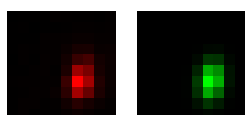Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -96.1 um (x), 51.1 um (y), 61.2 um (z)
Corresponding bead : Not found

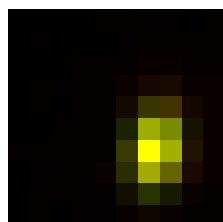| FWHM	Non corrected	Corrected	Theoretical
min	378 nm	391 nm	223 nm
max	588 nm	608 nm	223 nm
z	1.25 um	1.25 um	885 nm
Asymmetry	0.643		
Theta	81.8°		

XY profile & fitting parameters :

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

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

$R^2 = 0.986$

Parameters:
A = 1750.444 (brightness)
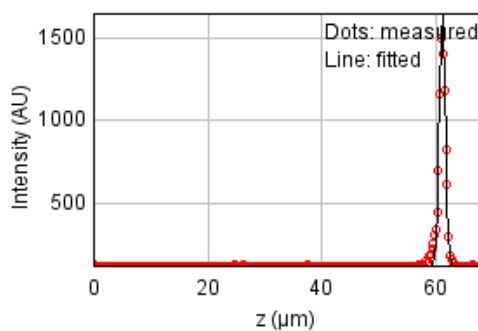B = 127.789 (background)
a = 0.927 px
b = 0.078 px
c = 0.400 px

xc = 6.305 px
yc = 5.929 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 145411.621
Standard deviation: 21.76358
R^2: 0.98526
Parameters:
a = 115.48396
b = 1645.74126
c = 61.17522
d = 0.53001

Bead 2797

Date : Mon Oct 17 13:30:05 PDT 2022
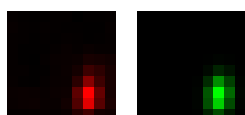Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -130 um (x), 49.7 um (y), 63.0 um (z)
Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	365 nm	377 nm	223 nm
max	582 nm	601 nm	223 nm
z	1.08 um	1.08 um	885 nm
Asymmetry	0.627		
Theta	84.4°		

XY profile & fitting parameters :

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

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

Parameters:
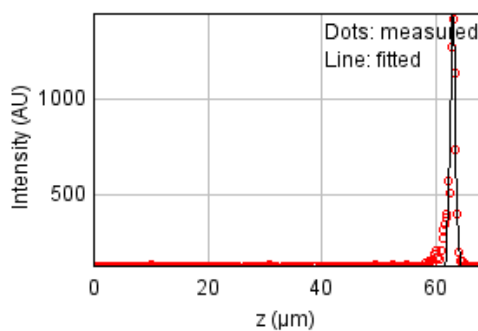A = 1398.440   (brightness)
B = 133.840   (background)
a = 1.002 px
b = 0.060 px
c = 0.402 px

xc = 7.034 px
yc = 7.237 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 334585.011
Standard deviation: 33.01293
R^2: 0.95258
Parameters:
 a = 117.62581
 b = 1485.25174
 c = 63.01303
 d = 0.45694

Bead 2798

Date : Mon Oct 17 13:30:05 PDT 2022
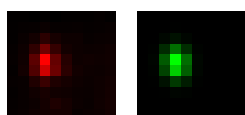Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -113 um (x), 48.8 um (y), 61.3 um (z)
Corresponding bead : Not found

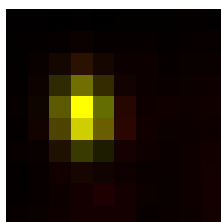| FWHM	Non corrected	Corrected	Theoretical
min	376 nm	388 nm	223 nm
max	506 nm	523 nm	223 nm
z	1.21 um	1.21 um	885 nm
Asymmetry	0.743		
Theta	-84.9°		

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 = 1669.619   (brightness)
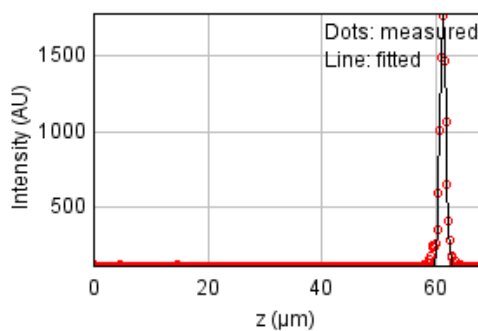B = 192.591   (background)
a = 0.947 px
b = -0.037 px
c = 0.528 px

xc = 3.060 px
yc = 4.298 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 87522.6346
Standard deviation: 16.88461
R^2: 0.99245
Parameters:
a = 115.31068
b = 1805.87929
c = 61.28090
d = 0.51341

Bead 2799 (Rejected)

Date : Mon Oct 17 13:30:05 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 124 um (x), 44.0 um (y), 38.8 um (z)
Corresponding bead : Not found
Reason of rejection : R or C parameter off limits.

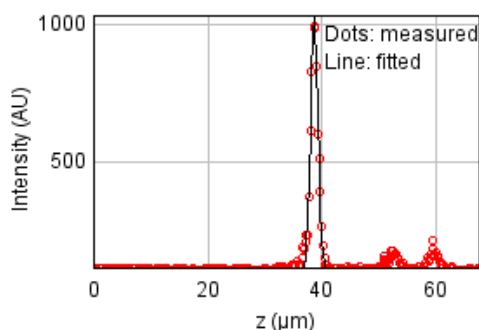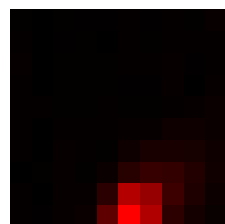| FWHM	Non corrected	Corrected	Theoretical
min	0	0	223 nm
max	0	0	223 nm
z	1.5 um	1.51 um	885 nm
Asymmetry	0.0		
Theta	0.0°		

XY profile & fitting parameters :

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

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

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2))
Sum of residuals squared: 135280.433
Standard deviation: 20.99173
R^2: 0.96823
Parameters:
 a = 119.71575
 b = 1031.60442
 c = 38.75335
 d = 0.63664

Bead 2800

Date : Mon Oct 17 13:30:05 PDT 2022
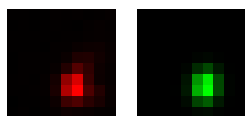Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 36.9 um (x), 43.2 um (y), 61.6 um (z)
Corresponding bead : Not found

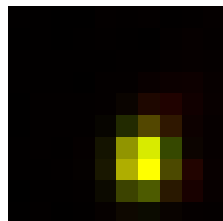| FWHM	Non corrected	Corrected	Theoretical
min	404 nm	418 nm	223 nm
max	492 nm	509 nm	223 nm
z	1.22 um	1.22 um	885 nm
Asymmetry	0.821		
Theta	82.5°		

XY profile & fitting parameters :

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

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

$R^2 = 0.974$

Parameters:
A = 1802.869   (brightness)
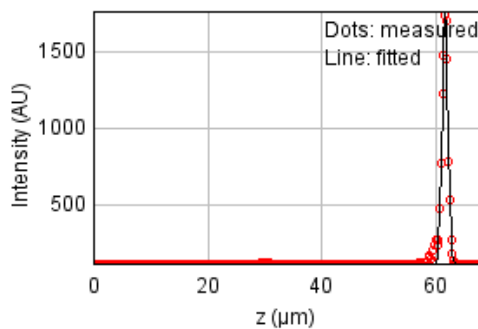B = 130.115   (background)
a = 0.817 px
b = 0.035 px
c = 0.558 px

xc = 5.752 px
yc = 6.591 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 122500.695
Standard deviation: 19.97561
R^2: 0.98912
Parameters:
a = 115.25610
b = 1771.97739
c = 61.63716
d = 0.51748