

Sample

Name : GNP_11.4.16_9.10_3
Mesured On : 11.04.2016 17:18
by : Hannelore **logged as** : Expert
Comments from Hannelore :

SOP

Name : defaultSOP
Mode : Statistical **Acquisitions** : 5
Time limitation : 60 s
Temperature : 25 °C

Device Settings

Time interval	: 2 μ s	Number of channels	: 600
Laser power	: 59.4 %	Wavelength	: 657 nm
DTC Position	: UP		

Liquid Medium

Refractive index	: 1.331	Viscosity	: 0.888 cP
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Particles

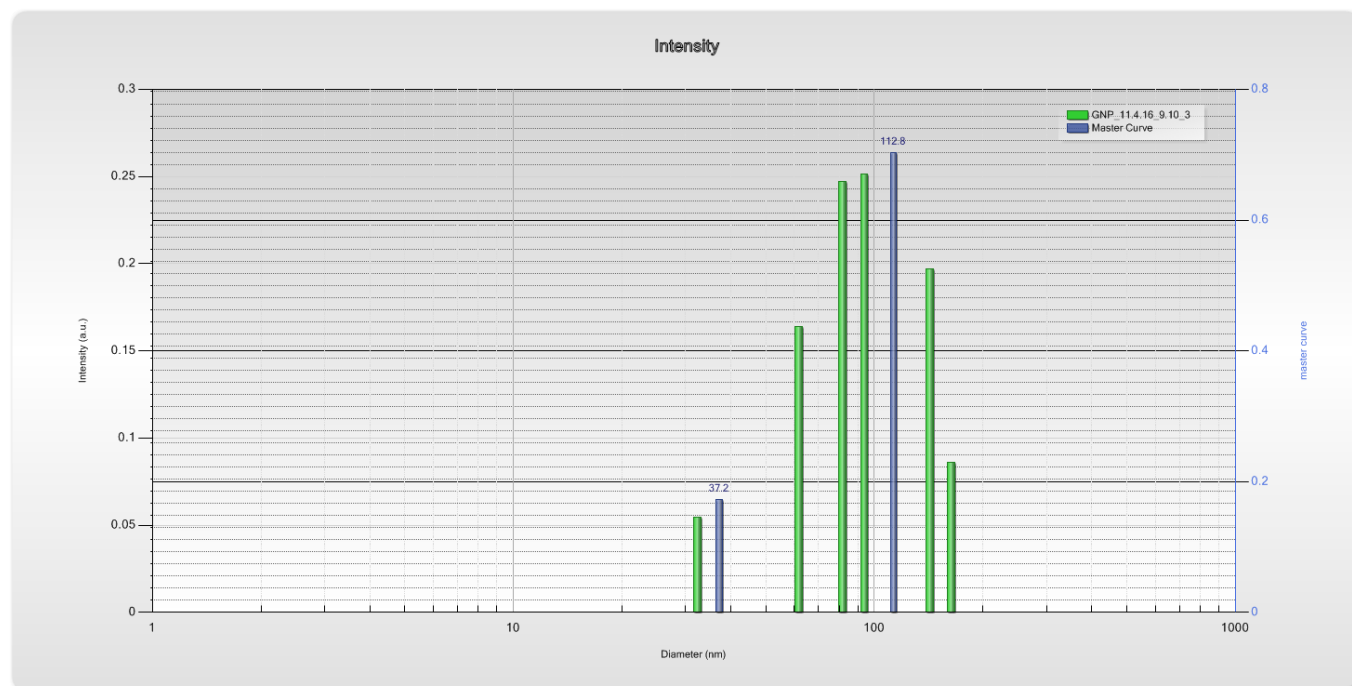
Real part	: 1.56	Imaginary part	: 0.01
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Algorithm

Pade Laplace	Cumulants
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Measurement

Average count rate : 2270 kcps
Number of rejected : 1
Duration : 00:05:14
Number of modified : 0



Dispersion statistics

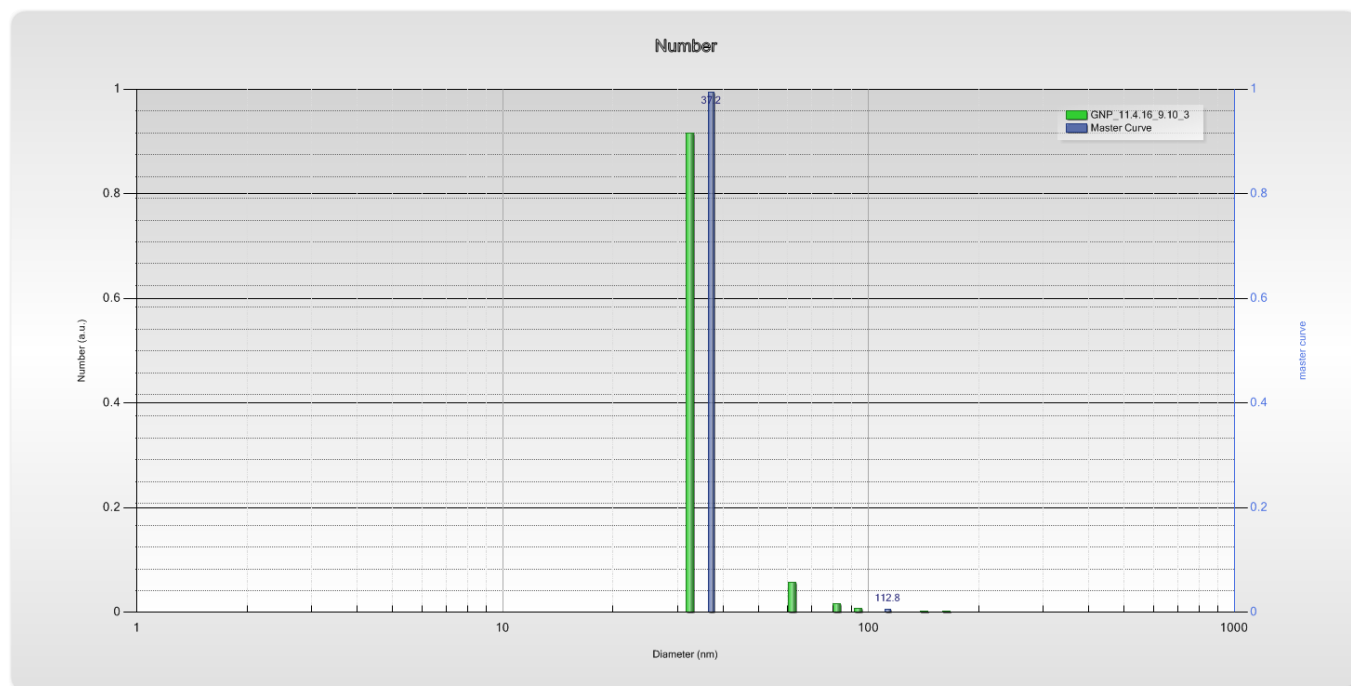
Di 10%: 61.83 nm

Di 50%: 93.73 nm

Di 90%: 142.11 nm

Dispersion datas

Size (nm)	Intensity	Size (nm)	Intensity	Size (nm)	Intensity	Size (nm)	Intensity
32.36	0.05	81.59	0.25	142.11	0.2		
61.83	0.16	93.73	0.25	163.25	0.09		



Dispersion statistics

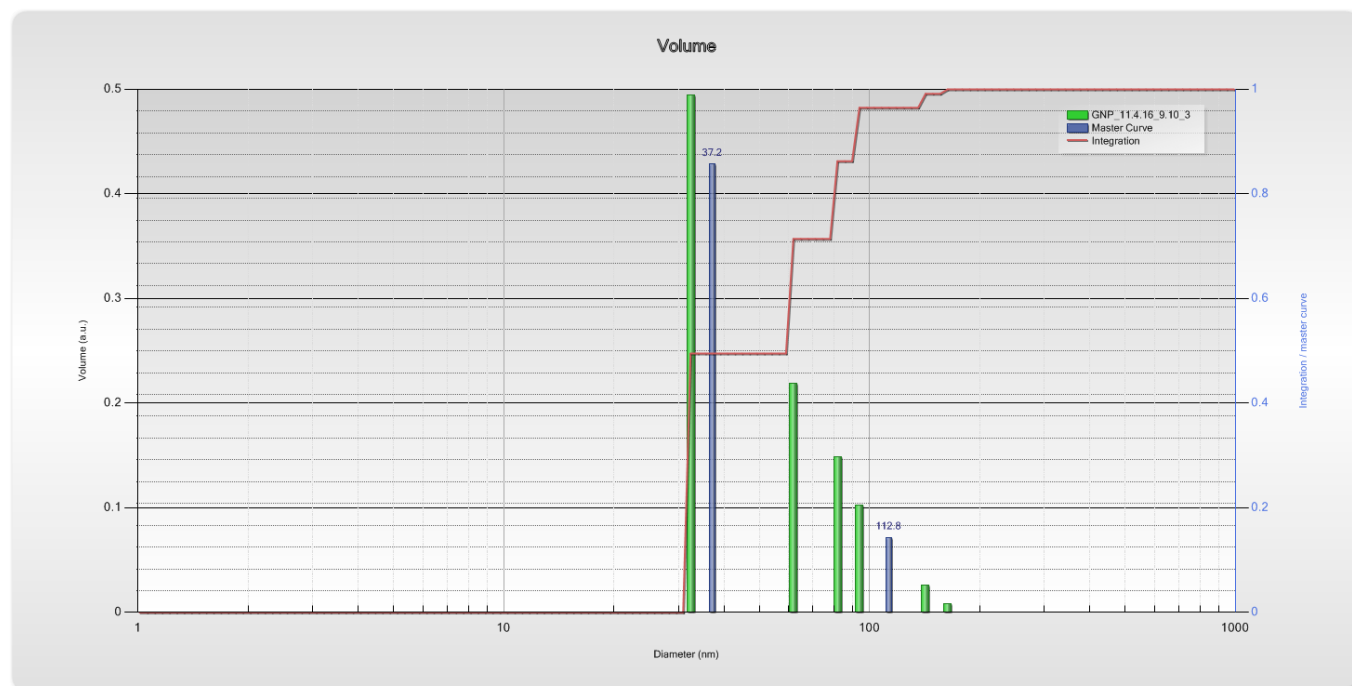
Dn 10%: 32.36 nm

Dn 50%: 32.36 nm

Dn 90%: 32.36 nm

Dispersion datas

Size (nm)	Number	Size (nm)	Number	Size (nm)	Number	Size (nm)	Number
32.36	0.92	81.59	0.02				
61.83	0.06	93.73	0.01				



Dispersion statistics

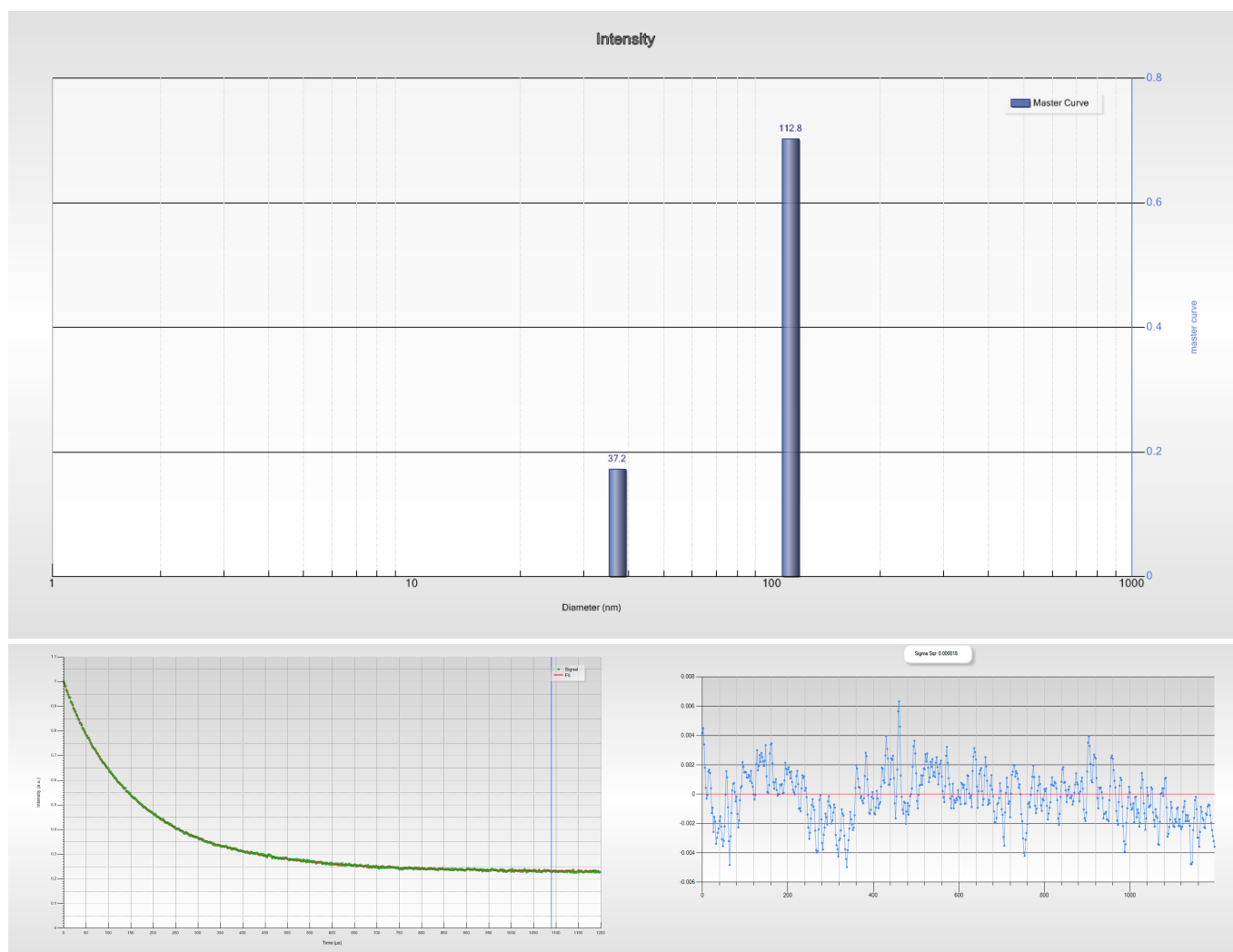
Dv 10%: 32.36 nm

Dv 50%: 61.83 nm

Dv 90%: 93.73 nm

Dispersion datas

Size (nm)	Volume	Size (nm)	Volume	Size (nm)	Volume	Size (nm)	Volume
32.36	0.49	81.59	0.15	142.11	0.03		
61.83	0.22	93.73	0.1	163.25	0.01		



Dispersion statistics

Di 10%: 37.18 nm

Di 50%: 112.77 nm

Di 90%: 112.77 nm

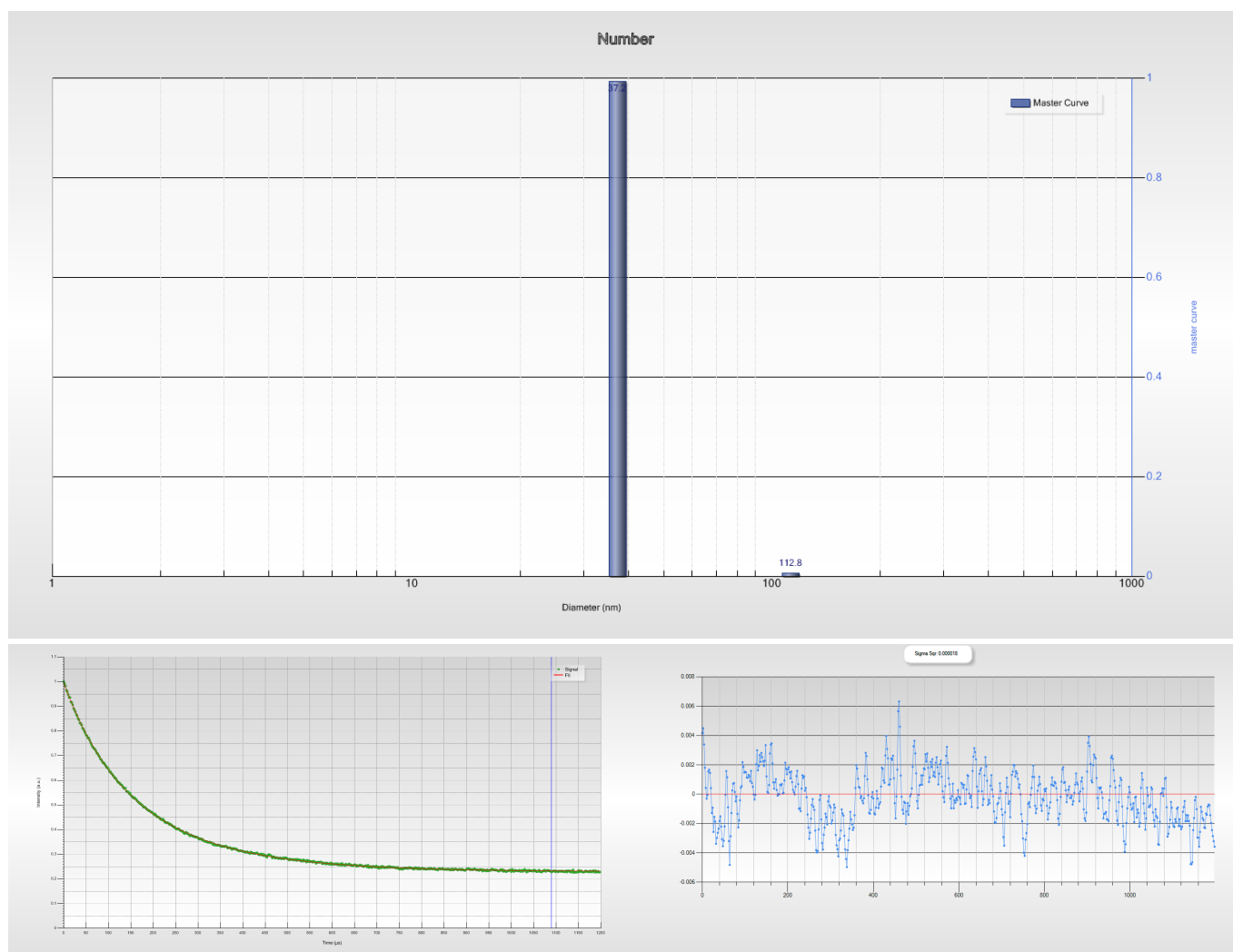
Mean Intensity: 97.88 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
36.88	0.17	7044.87	13.32775E-012
111.76	0.7	2324.65	43.9786E-013

Dispersion datas

Size (nm)	Intensity	Size (nm)	Intensity
37.18	0.2	112.77	0.8



Dispersion statistics

Dn 10%: 37.18 nm
Mean Number: 37.63 nm

Dn 50%: 37.18 nm

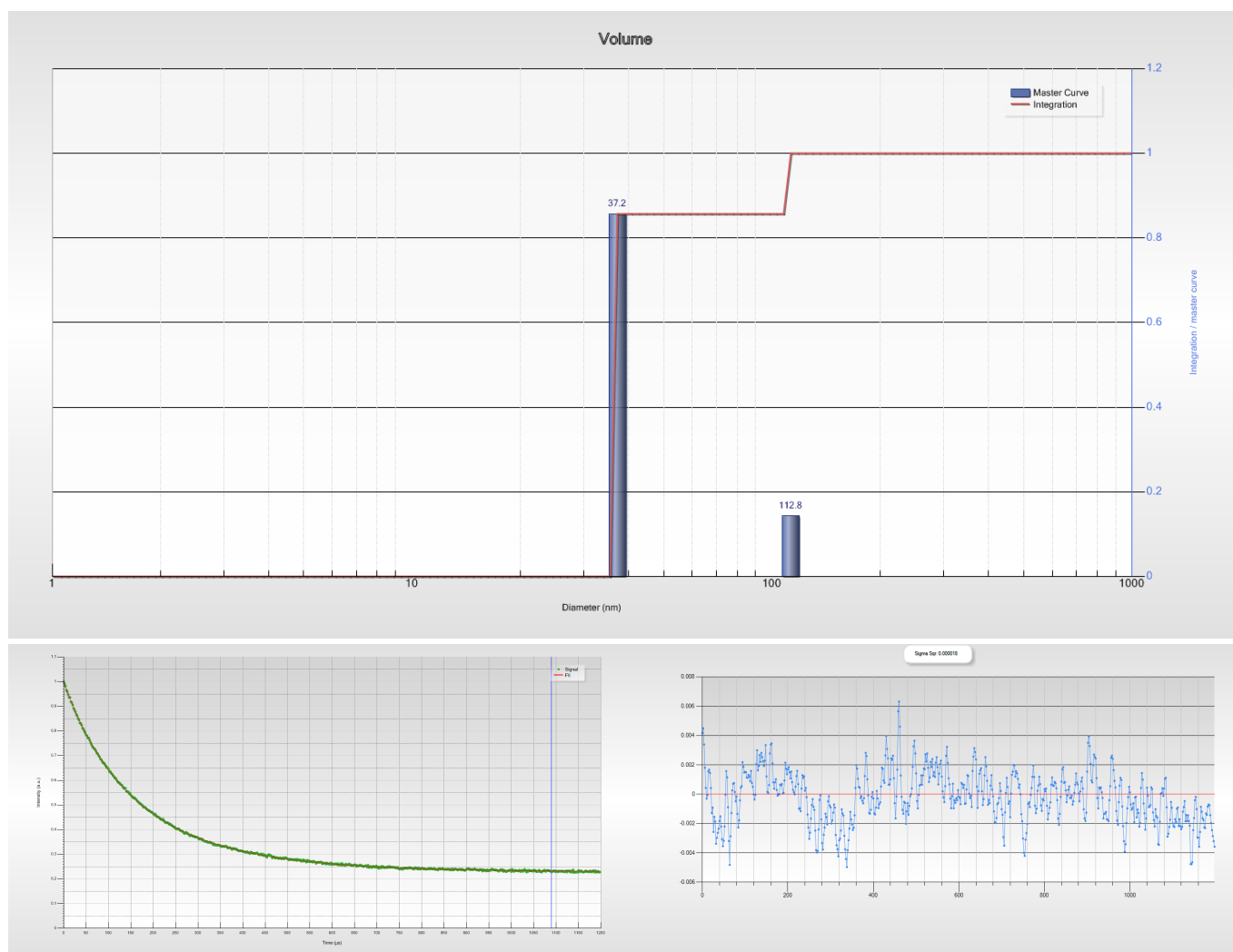
Dn 90%: 37.18 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
36.88	0.17	7044.87	13.32775E-012
111.76	0.7	2324.65	43.9786E-013

Dispersion datas

Size (nm)	Number	Size (nm)	Number
37.18	0.99	112.77	0.01



Dispersion statistics

Dv 10%: 37.18 nm
Mean Volume: 48 nm

Dv 50%: 37.18 nm

Dv 90%: 112.77 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
36.88	0.17	7044.87	13.32775E-012
111.76	0.7	2324.65	43.9786E-013

Dispersion datas

Size (nm)	Volume	Size (nm)	Volume
37.18	0.86	112.77	0.14

**Distribution statistics**

Di 10%: 64.75 nm
Mean Intensity: 97.65 nm
PDI : 0.31562

Di 50%: 93.73 nm

Di 90%: 135.68 nm

Std Dev: 28.09%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m²/s)
83.89	0.76	3097.4	58.59779E-013



Distribution statistics

Dn 10%: 42.71 nm
Mean Number: 62.45 nm
PDI : 0.31562

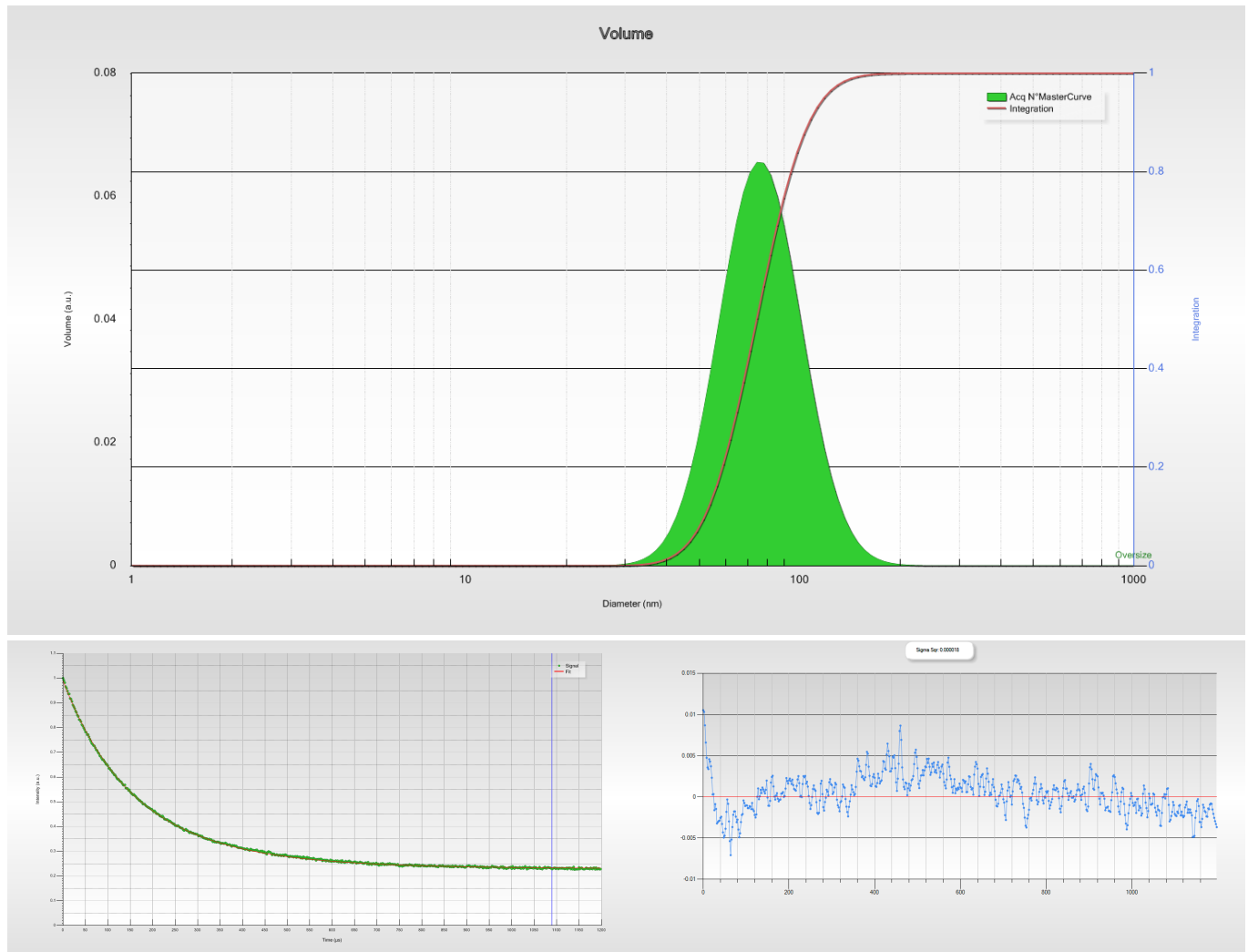
Dn 50%: 59.03 nm

Dn 90%: 85.45 nm

Std Dev: 28.09%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
83.89	0.76	3097.4	58.59779E-013



Distribution statistics

Dv 10%: 53.82 nm

Dv 50%: 74.39 nm

Dv 90%: 107.68 nm

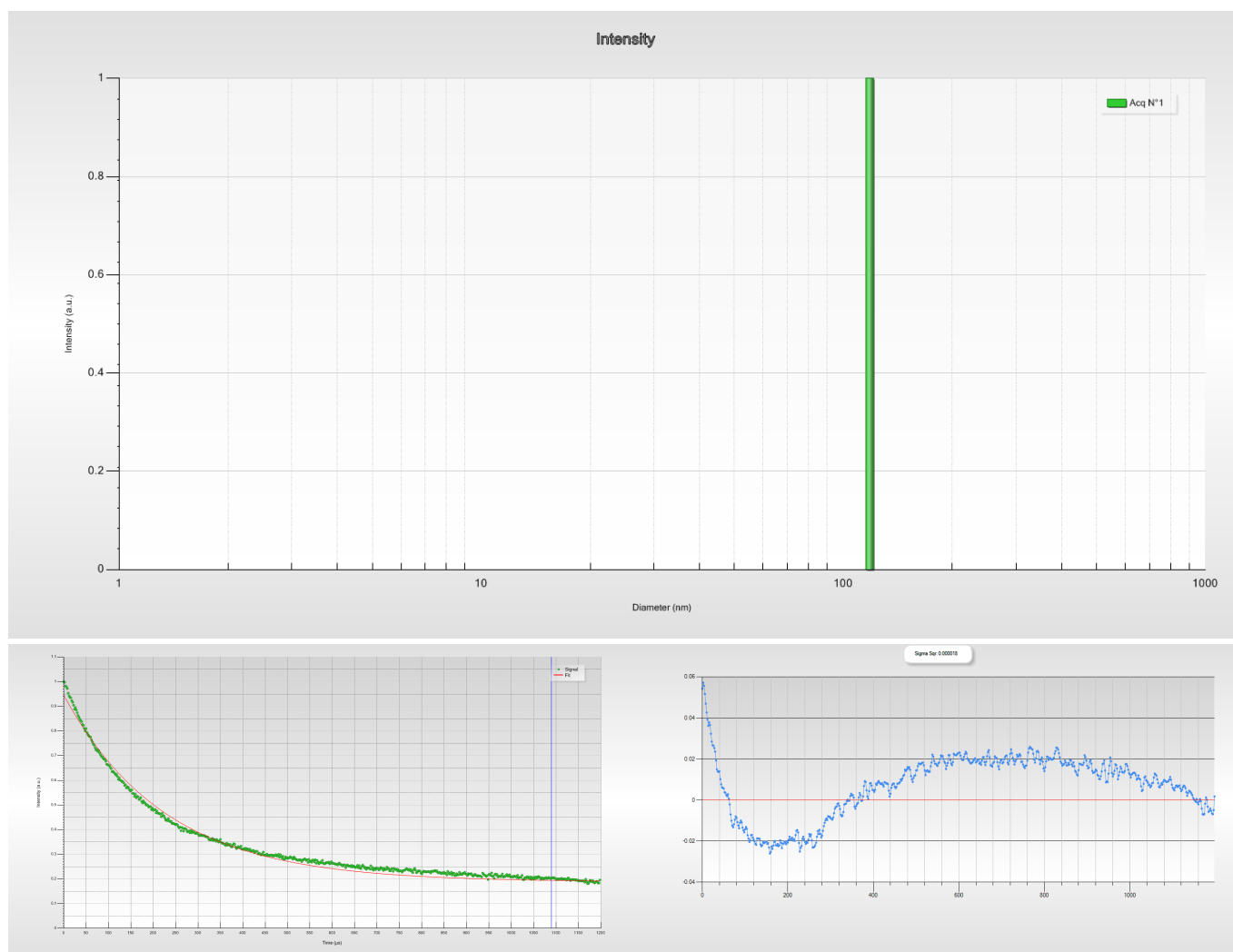
Mean Volume: 79.1 nm

PDI : 0.31562

Std Dev: 28.09%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
83.89	0.76	3097.4	58.59779E-013



Dispersion statistics

Di 10%: 118.11 nm
Mean Intensity: 118.11 nm

Di 50%: 118.11 nm

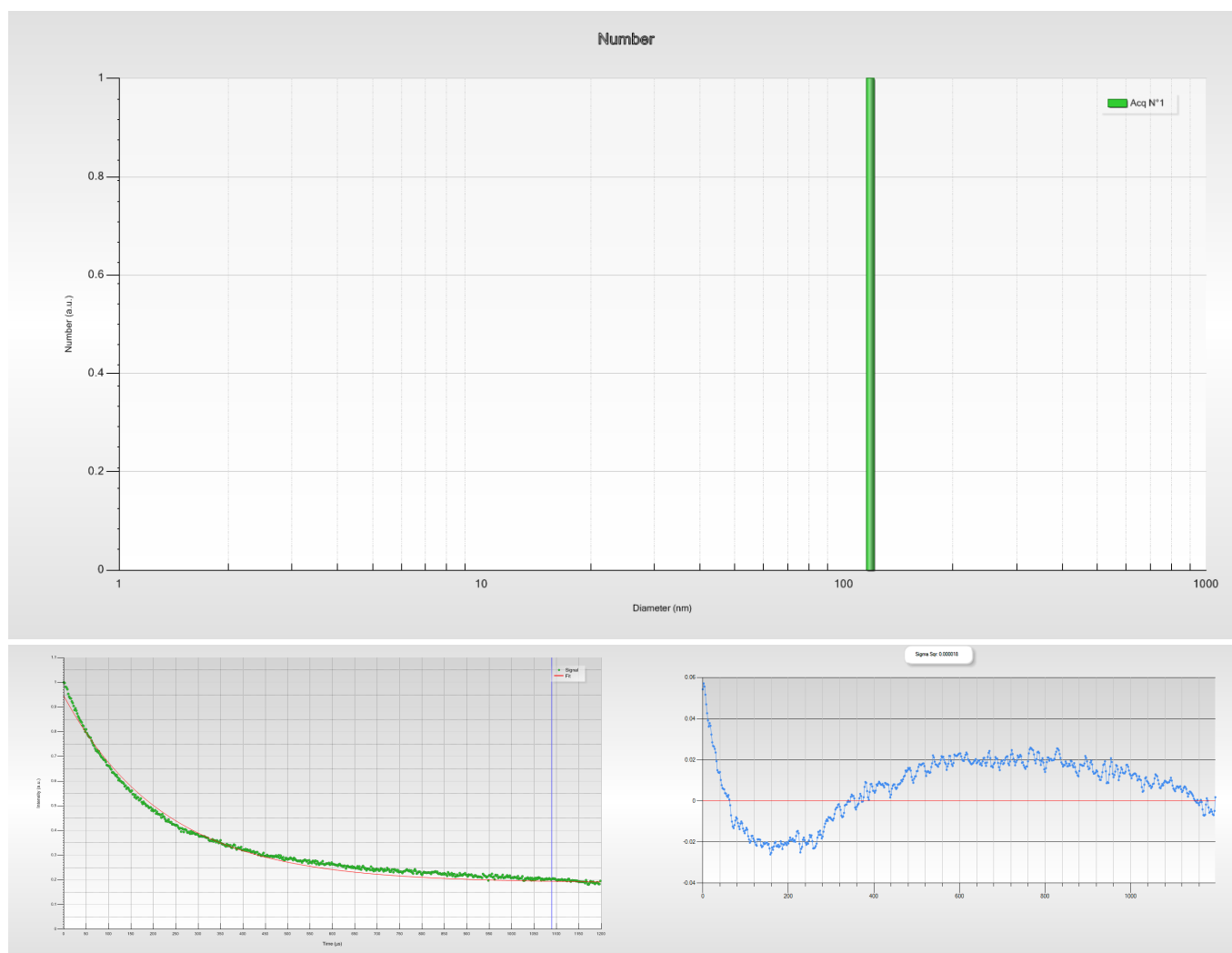
Di 90%: 118.11 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
117.8	0.87	2205.3	41.72064E-013

Dispersion datas

Size (nm)	Intensity
118.11	1



Dispersion statistics

Dn 10%: 118.11 nm
Mean Number: 118.11 nm

Dn 50%: 118.11 nm

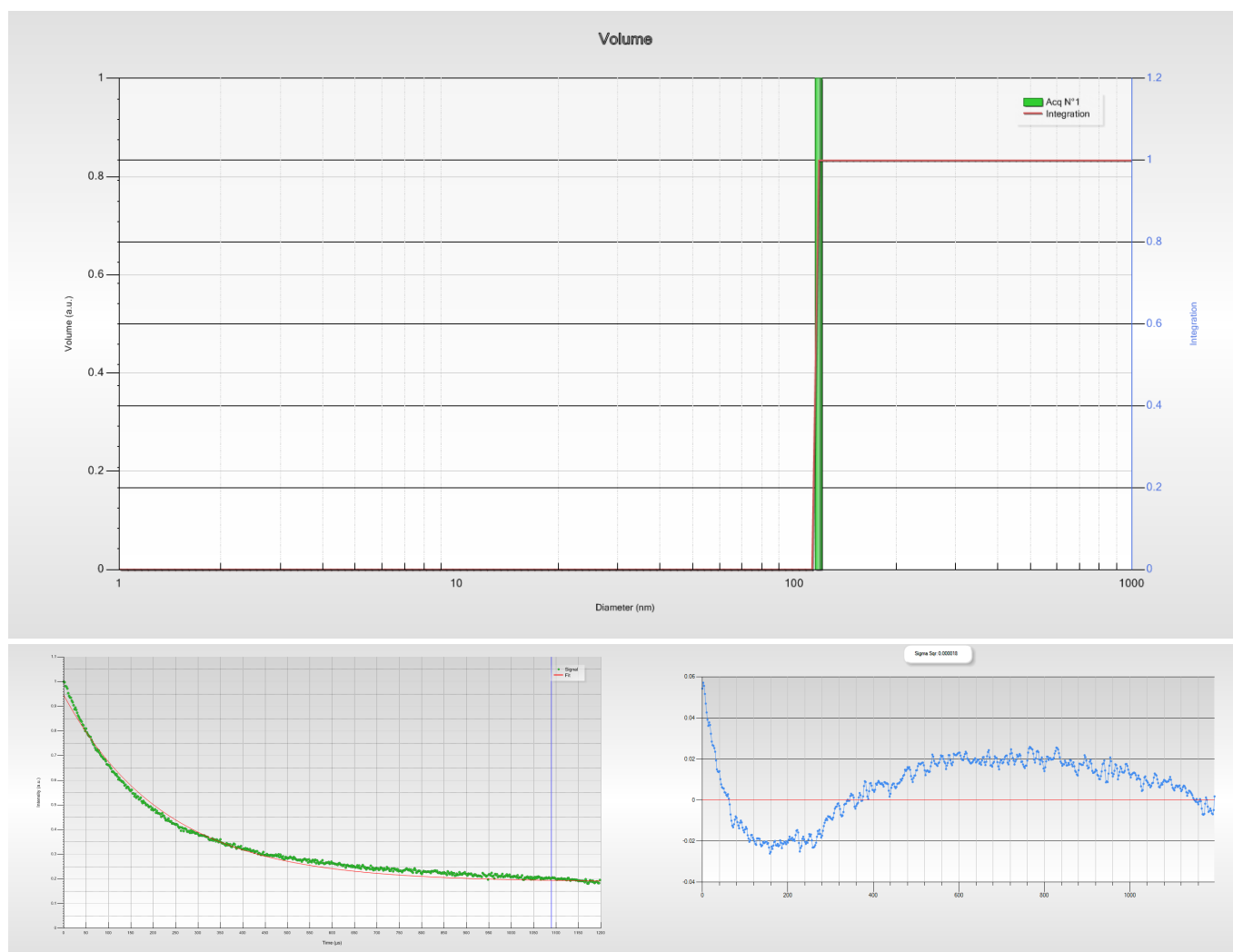
Dn 90%: 118.11 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
117.8	0.87	2205.3	41.72064E-013

Dispersion datas

Size (nm)	Number
118.11	1



Dispersion statistics

Dv 10%: 118.11 nm
Mean Volume: 118.11 nm

Dv 50%: 118.11 nm

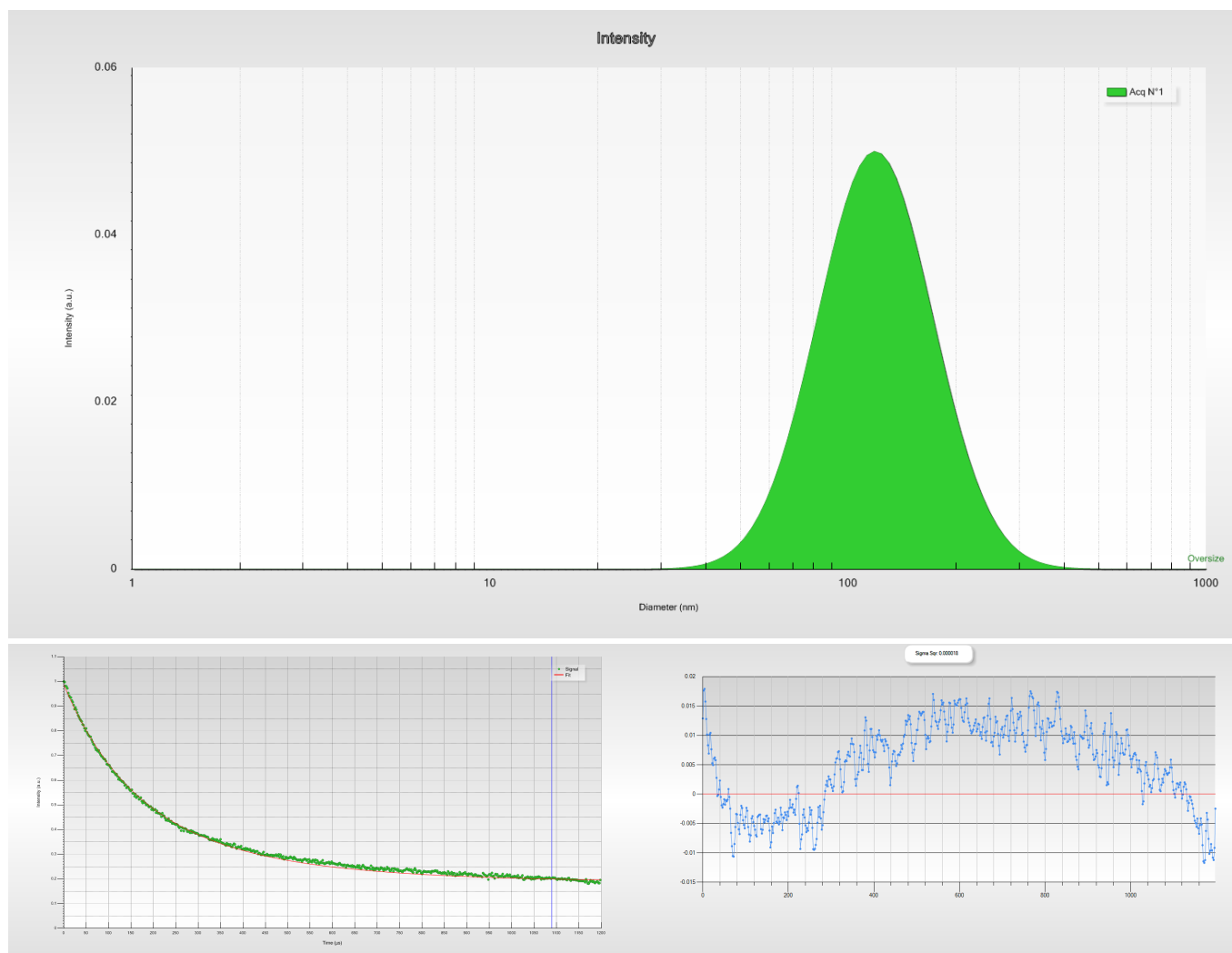
Dv 90%: 118.11 nm

Detected size(s)

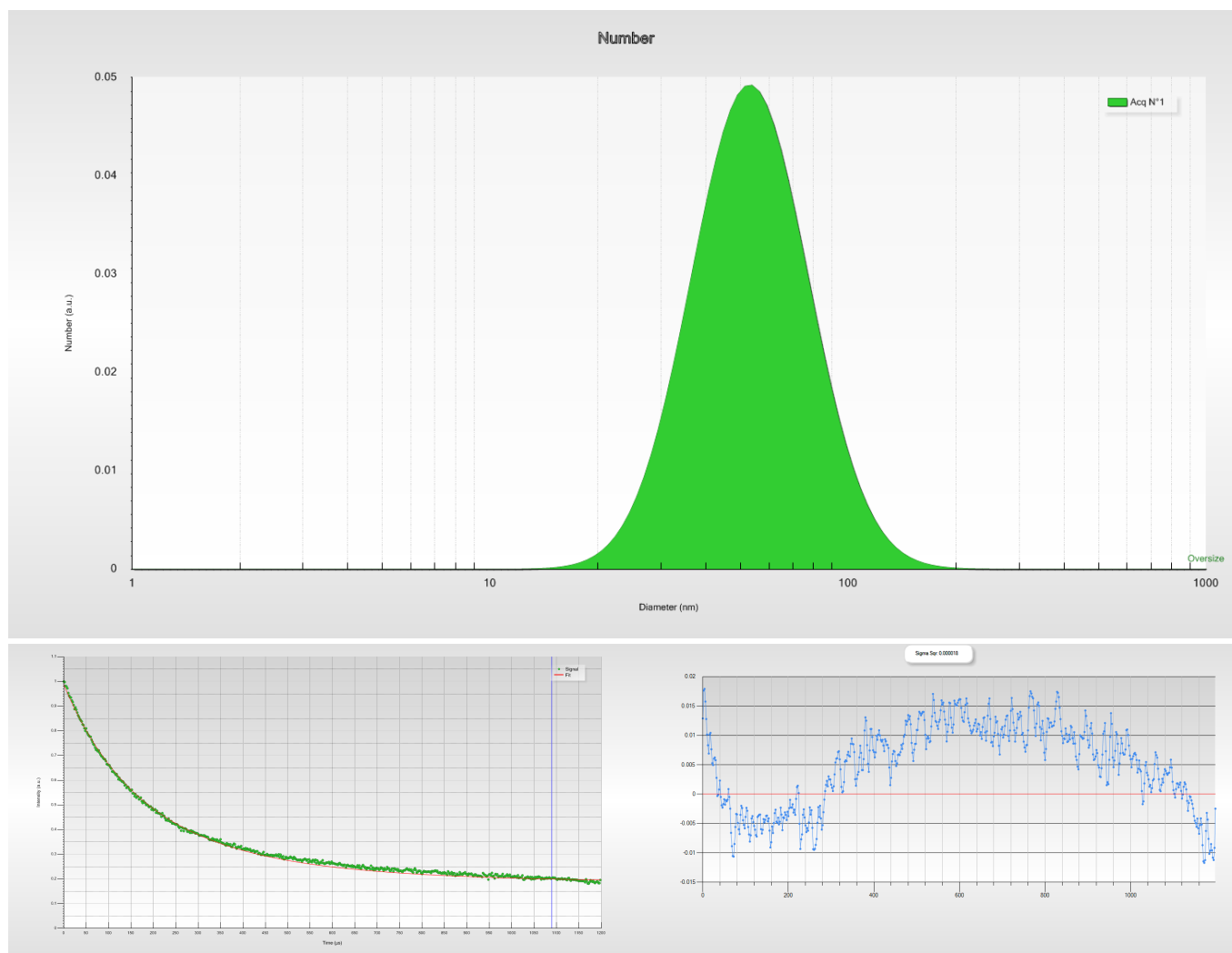
Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
117.8	0.87	2205.3	41.72064E-013

Dispersion datas

Size (nm)	Volume
118.11	1

**Distribution statistics****Di 10%:** 74.39 nm**Di 50%:** 118.11 nm**Di 90%:** 187.54 nm**Mean Intensity:** 127.13 nm**PDI** : 0.58295**Std Dev:** 38.18%**Detected size(s)**

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m²/s)
96.83	0.8	2682.97	50.75753E-013

**Distribution statistics**

Dn 10%: 32.36 nm
Mean Number: 57.03 nm
PDI : 0.58295

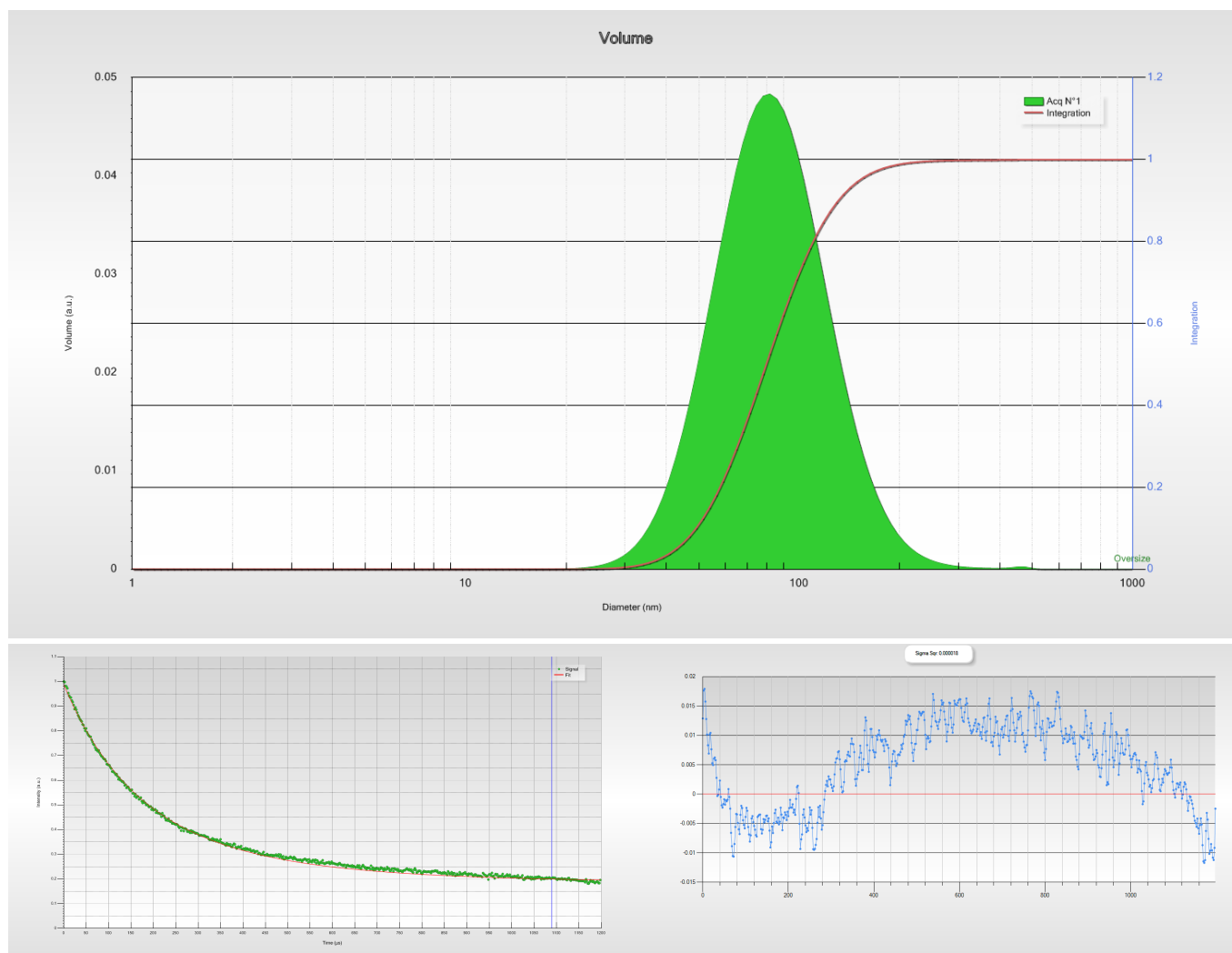
Dn 50%: 53.82 nm

Dn 90%: 85.45 nm

Std Dev: 38.18%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m²/s)
96.83	0.8	2682.97	50.75753E-013



Distribution statistics

Dv 10%: 49.06 nm

Dv 50%: 81.59 nm

Dv 90%: 135.68 nm

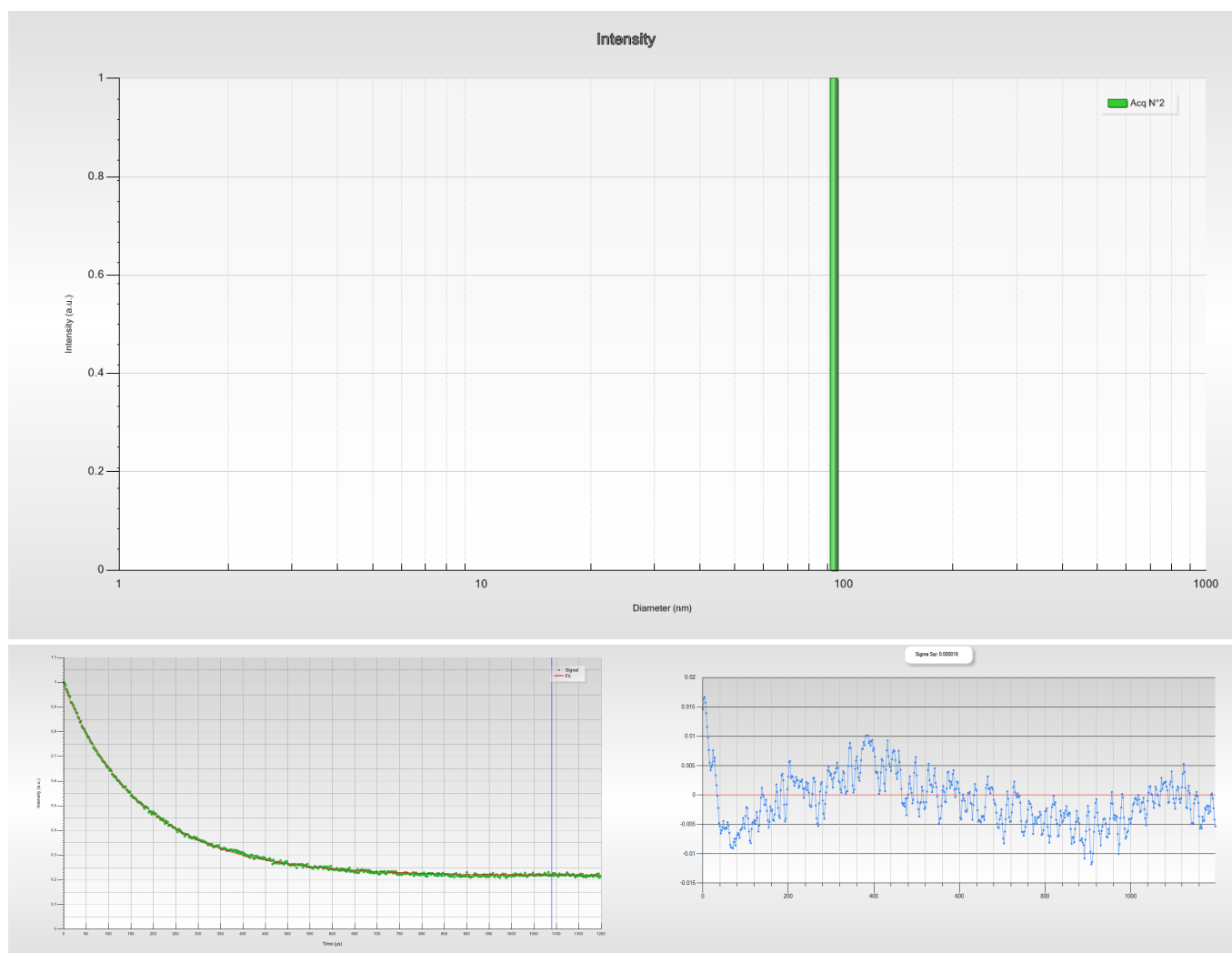
Mean Volume: 88.45 nm

PDI : 0.58295

Std Dev: 38.18%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
96.83	0.8	2682.97	50.75753E-013



Dispersion statistics

Di 10%: 93.73 nm
Mean Intensity: 93.73 nm

Di 50%: 93.73 nm

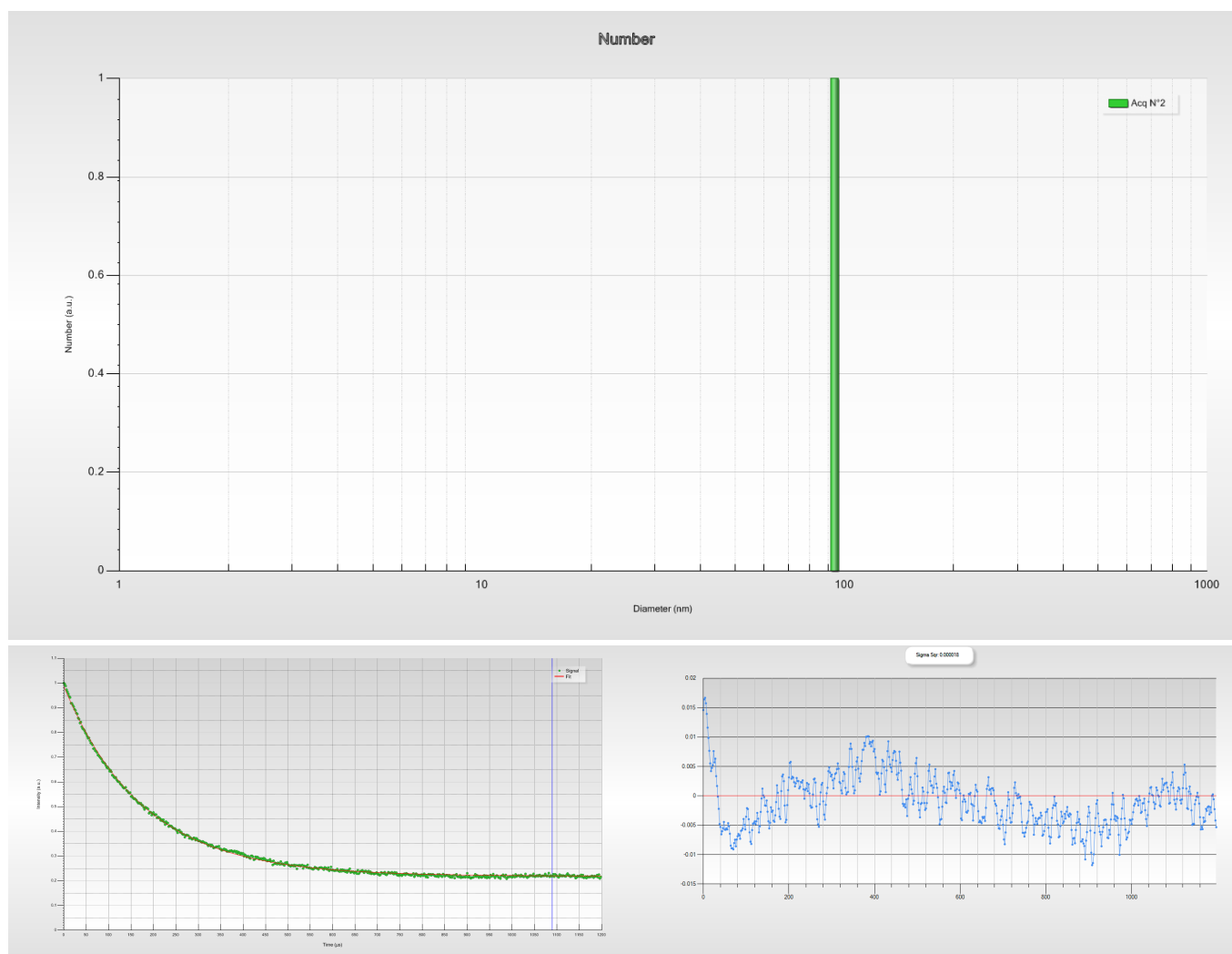
Di 90%: 93.73 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m²/s)
92.42	0.88	2810.9	53.17765E-013

Dispersion datas

Size (nm)	Intensity
93.73	1



Dispersion statistics

Dn 10%: 93.73 nm
Mean Number: 93.73 nm

Dn 50%: 93.73 nm

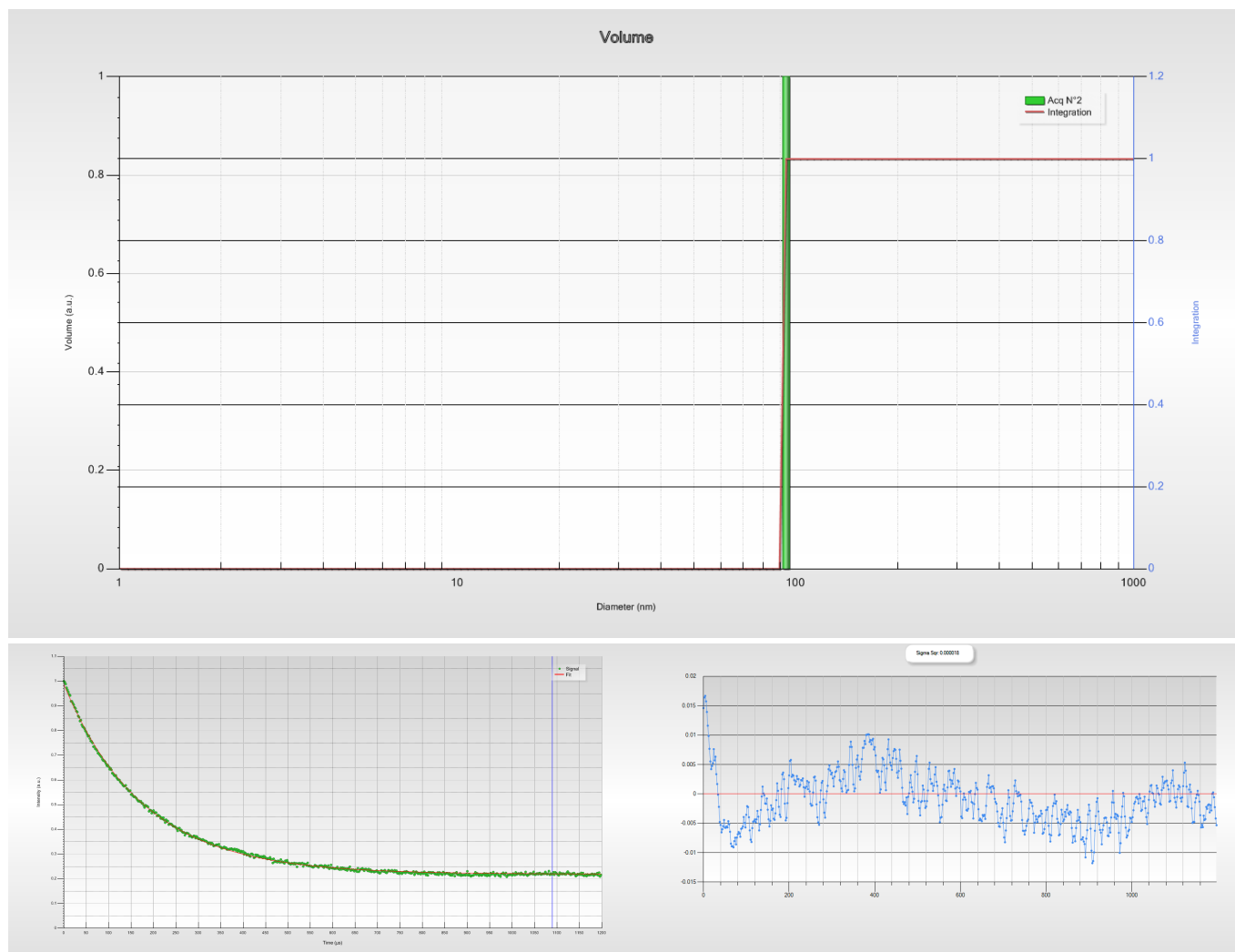
Dn 90%: 93.73 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m²/s)
92.42	0.88	2810.9	53.17765E-013

Dispersion datas

Size (nm)	Number
93.73	1



Dispersion statistics

Dv 10%: 93.73 nm
Mean Volume: 93.73 nm

Dv 50%: 93.73 nm

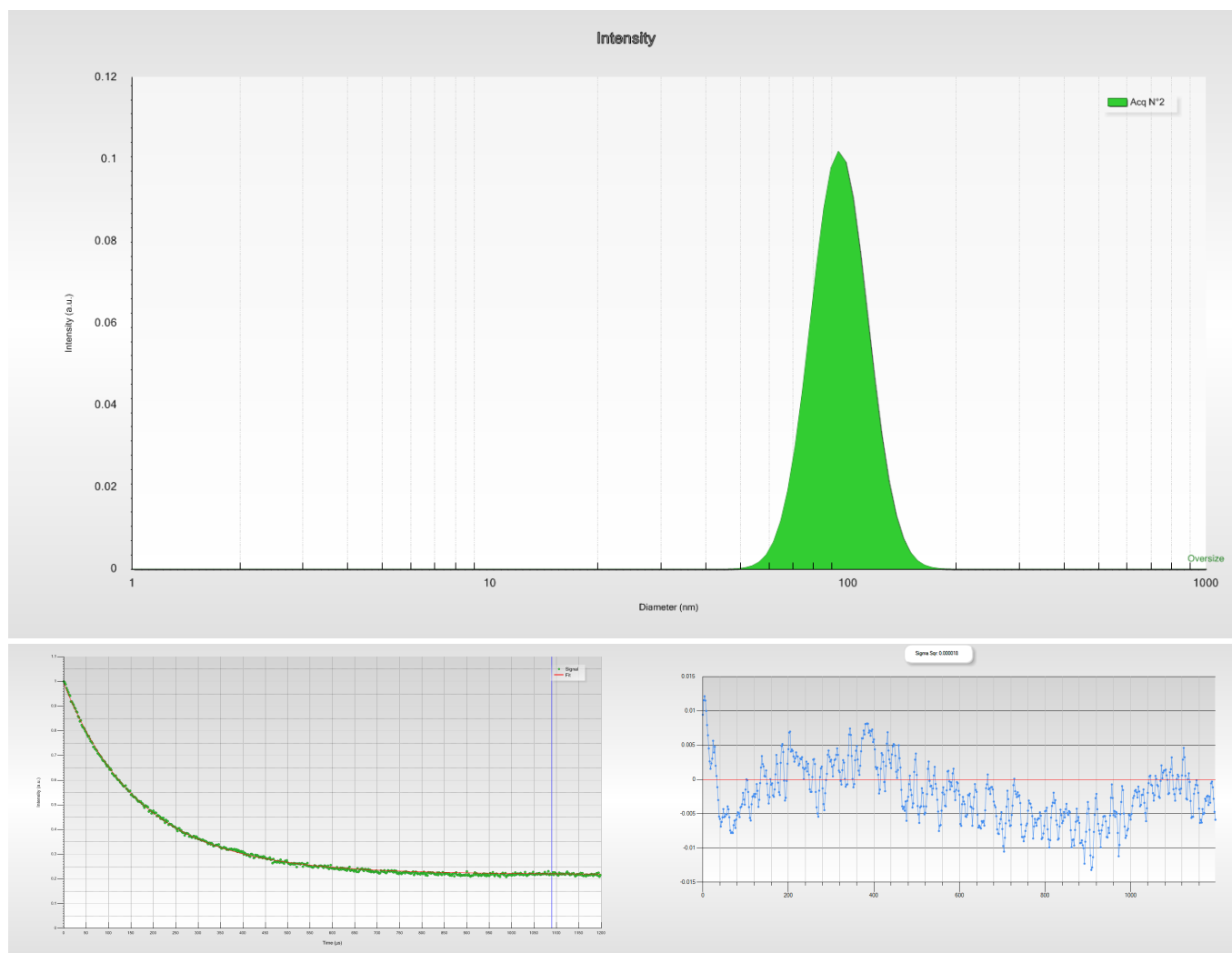
Dv 90%: 93.73 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
92.42	0.88	2810.9	53.17765E-013

Dispersion datas

Size (nm)	Volume
93.73	1

**Distribution statistics**

Di 10%: 74.39 nm
Mean Intensity: 95.79 nm
PDI : 0.13282

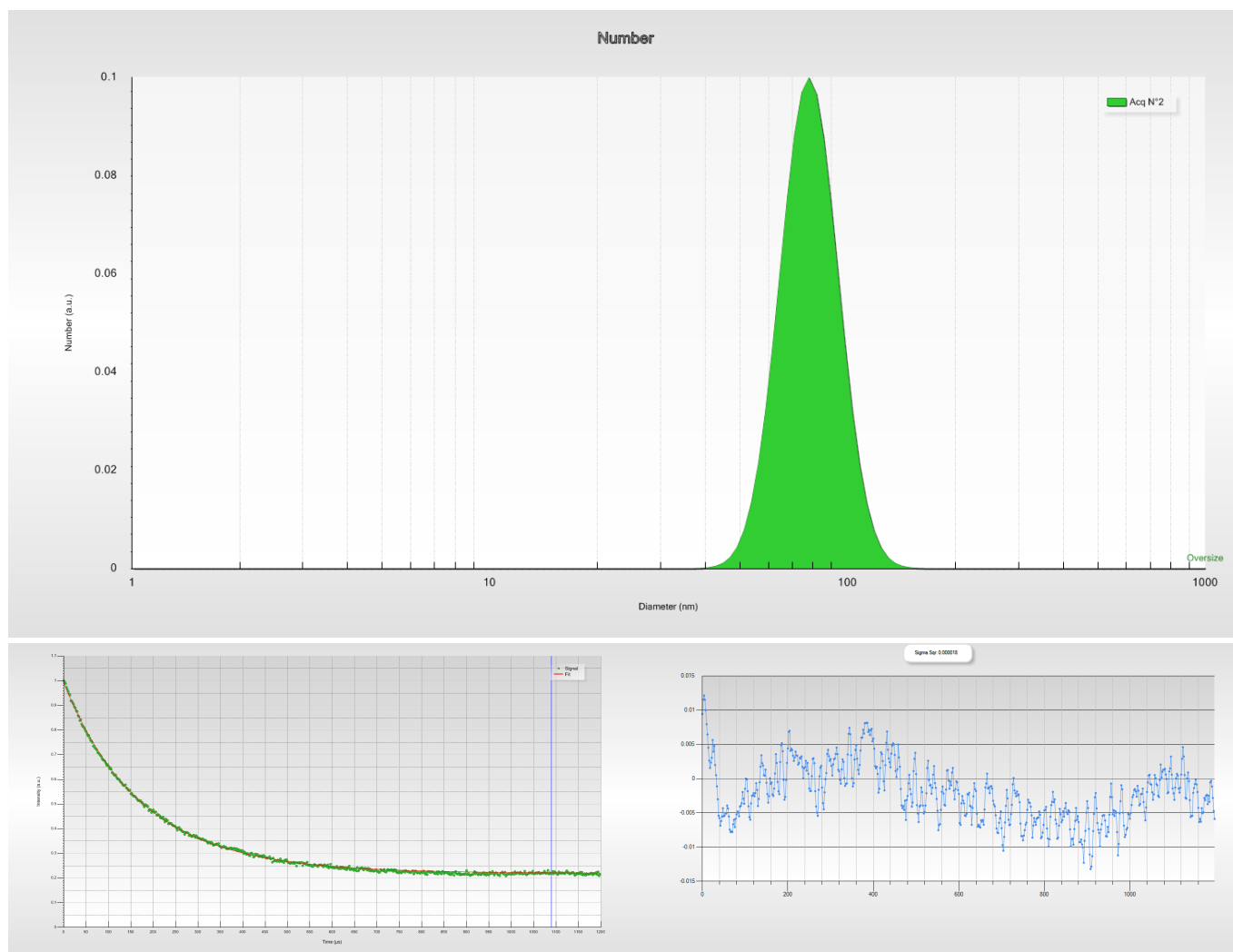
Di 50%: 93.73 nm

Di 90%: 118.11 nm

Std Dev: 18.22%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m²/s)
89.71	0.77	2895.81	54.78396E-013

**Distribution statistics**

Dn 10%: 61.83 nm
Mean Number: 79.19 nm
PDI : 0.13282

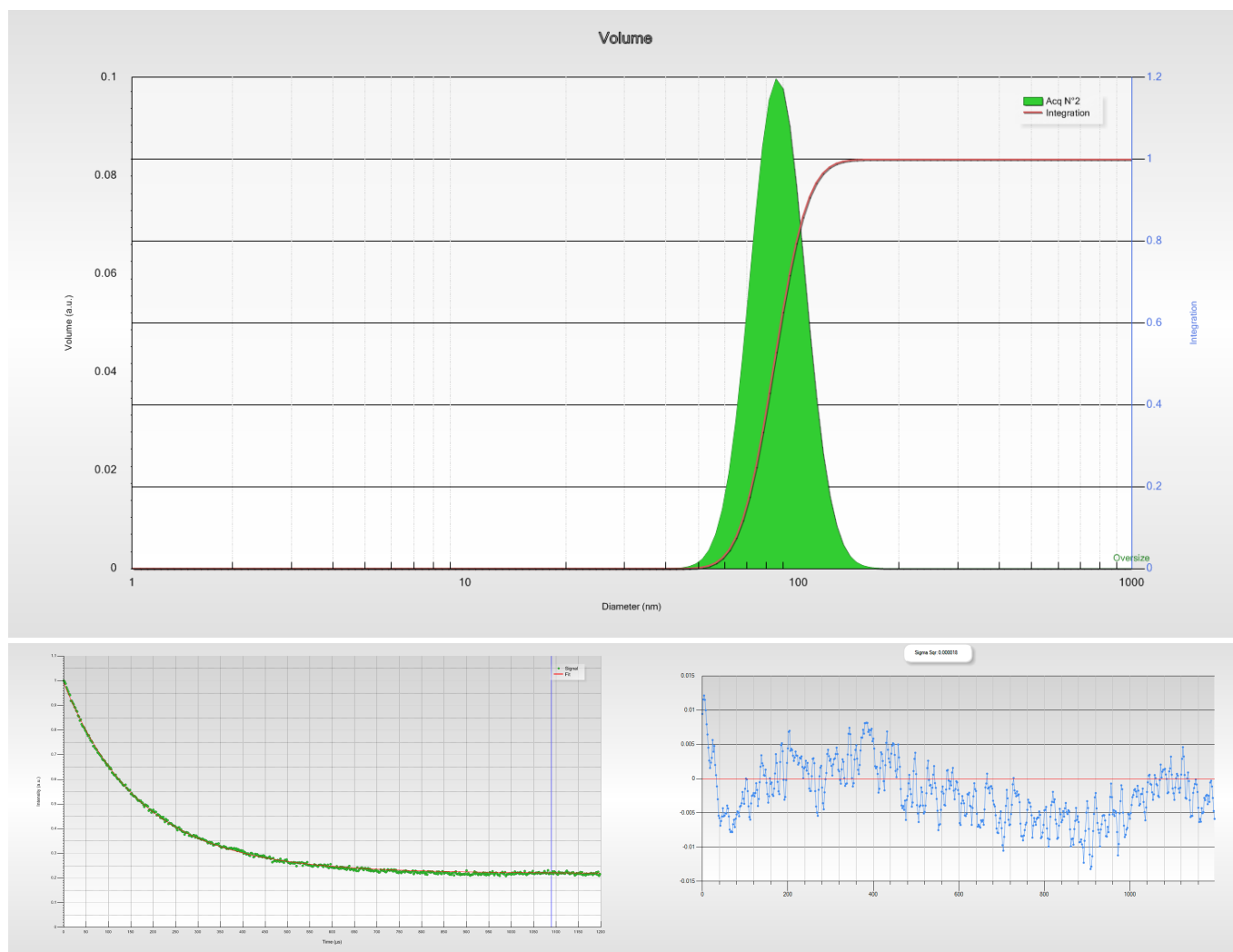
Dn 50%: 77.91 nm

Dn 90%: 98.17 nm

Std Dev: 18.22%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m²/s)
89.71	0.77	2895.81	54.78396E-013



Distribution statistics

Dv 10%: 67.81 nm

Dv 50%: 85.45 nm

Dv 90%: 107.68 nm

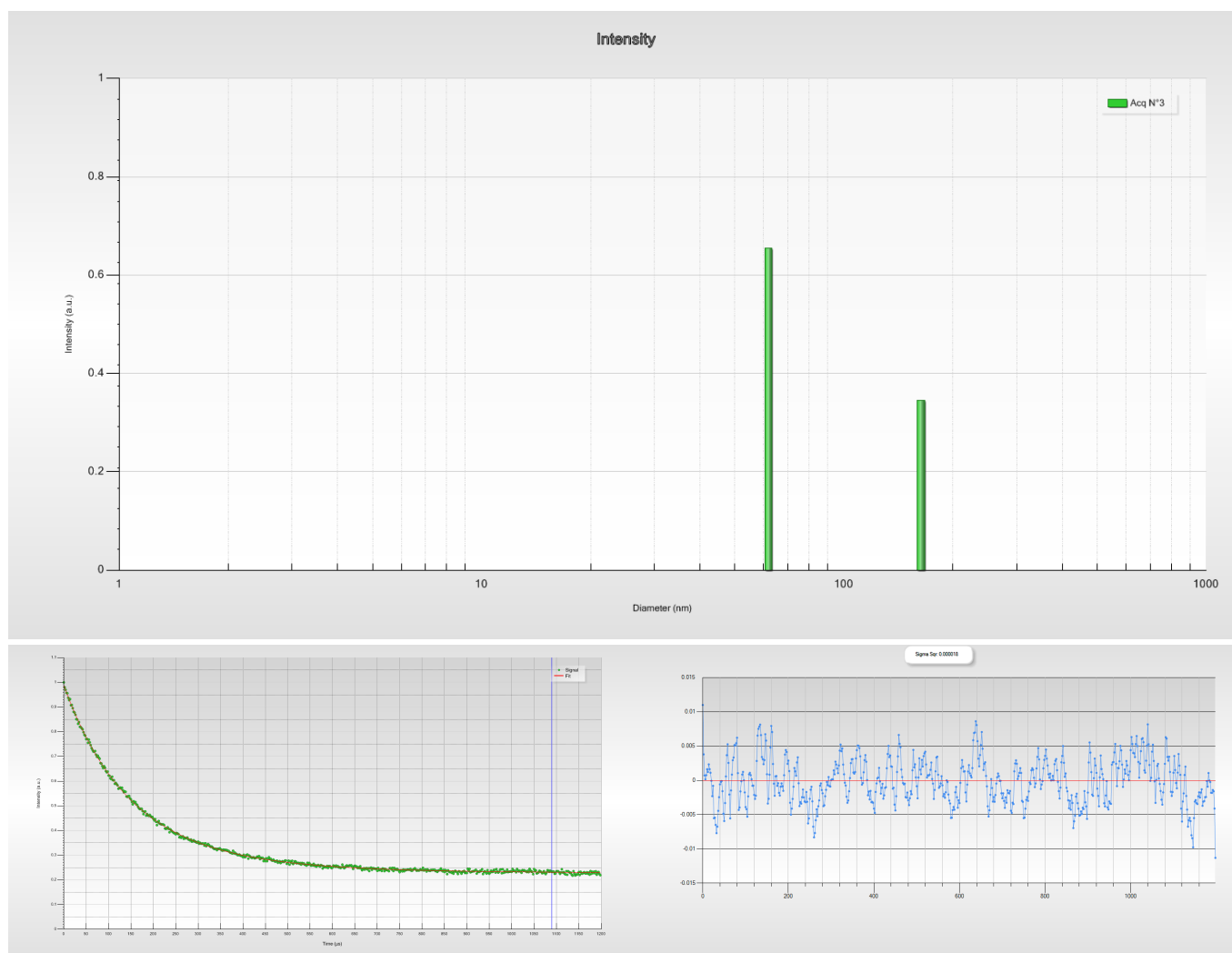
Mean Volume: 87.73 nm

PDI : 0.13282

Std Dev: 18.22%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
89.71	0.77	2895.81	54.78396E-013



Dispersion statistics

Di 10%: 61.83 nm

Di 50%: 61.83 nm

Di 90%: 163.25 nm

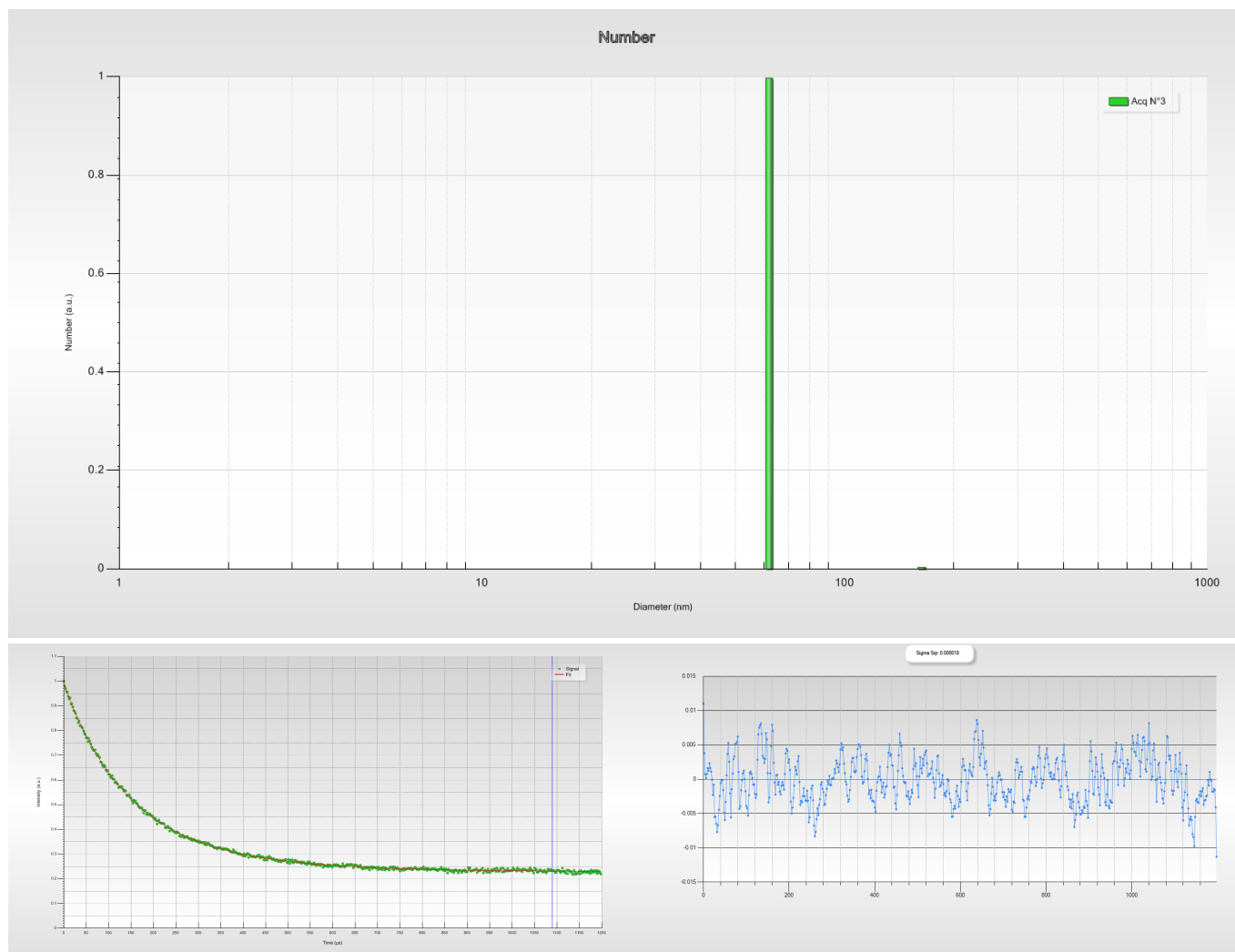
Mean Intensity: 96.8 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
62.25	0.57	4173.58	78.95737E-013
166.52	0.3	1560.04	29.51346E-013

Dispersion datas

Size (nm)	Intensity	Size (nm)	Intensity
61.83	0.66	163.25	0.34



Dispersion statistics

Dn 10%: 61.83 nm
Mean Number: 62.03 nm

Dn 50%: 61.83 nm

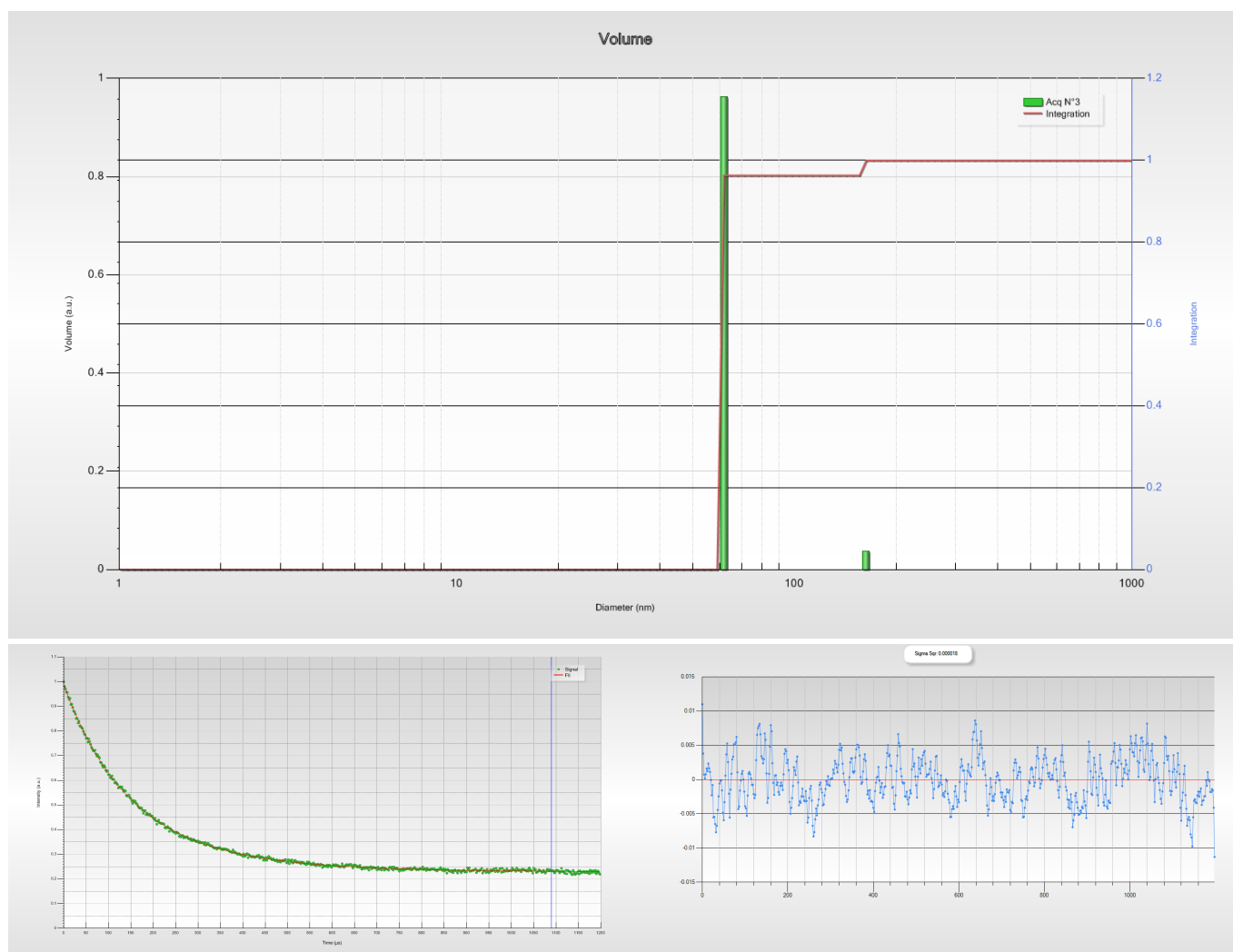
Dn 90%: 61.83 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m²/s)
62.25	0.57	4173.58	78.95737E-013
166.52	0.3	1560.04	29.51346E-013

Dispersion datas

Size (nm)	Number
61.83	1



Dispersion statistics

Dv 10%: 61.83 nm
Mean Volume: 65.55 nm

Dv 50%: 61.83 nm

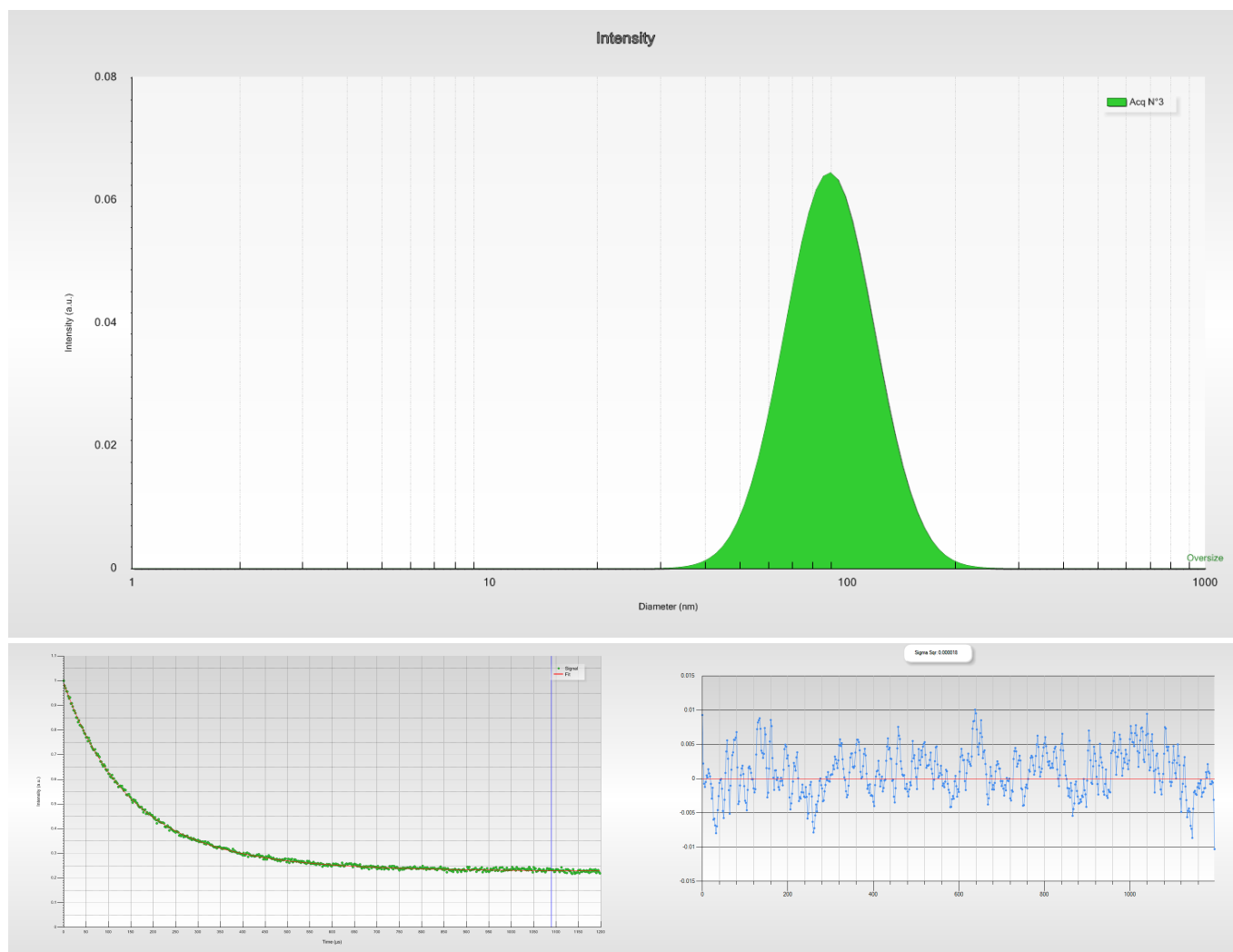
Dv 90%: 61.83 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
62.25	0.57	4173.58	78.95737E-013
166.52	0.3	1560.04	29.51346E-013

Dispersion datas

Size (nm)	Volume	Size (nm)	Volume
61.83	0.96	163.25	0.04



Distribution statistics

Di 10%: 61.83 nm

Di 50%: 89.5 nm

Di 90%: 129.55 nm

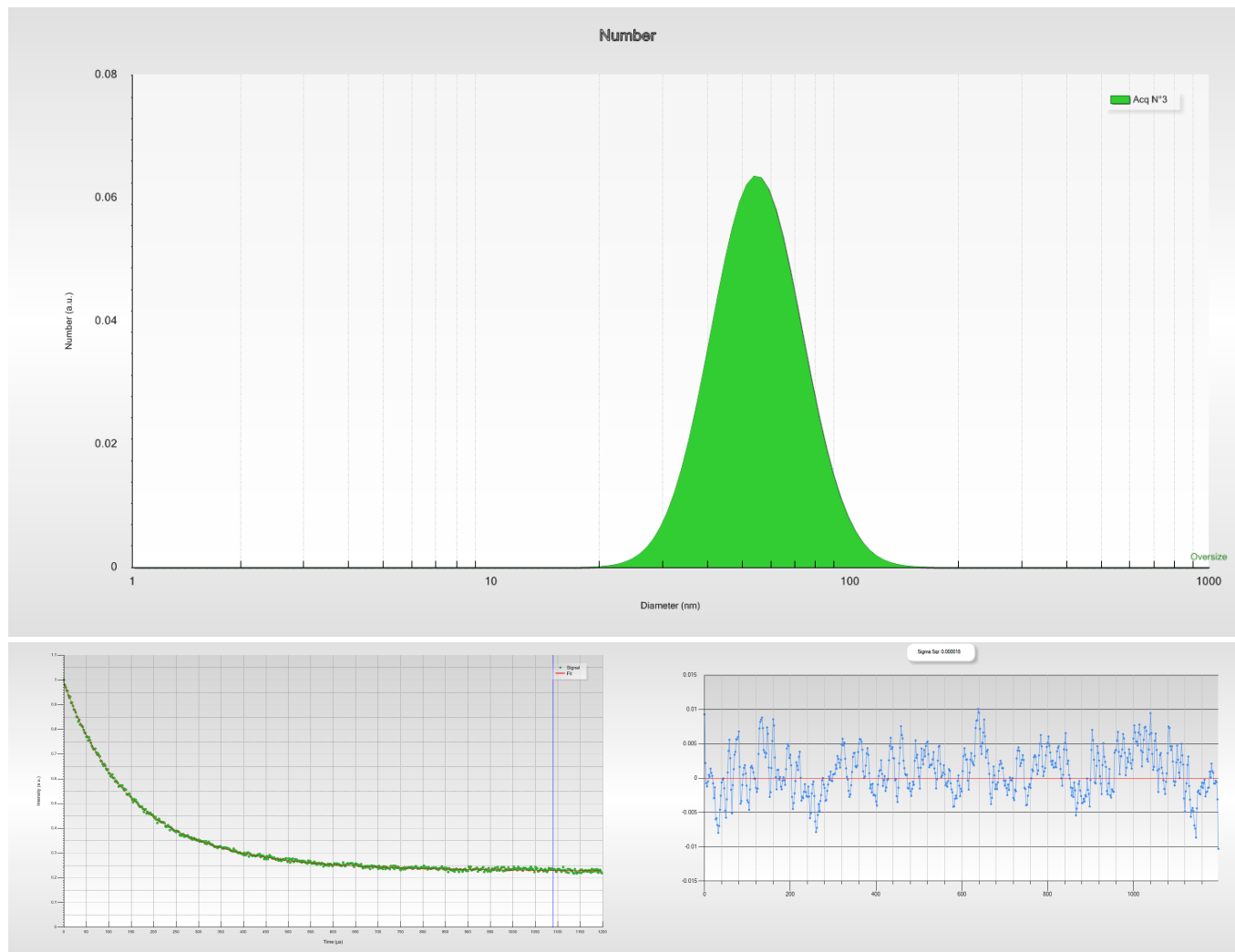
Mean Intensity: 92.57 nm

PDI : 0.34082

Std Dev: 29.19%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m²/s)
78.59	0.76	3305.63	62.53713E-013

**Distribution statistics**

Dn 10%: 37.18 nm
Mean Number: 57.13 nm
PDI : 0.34082

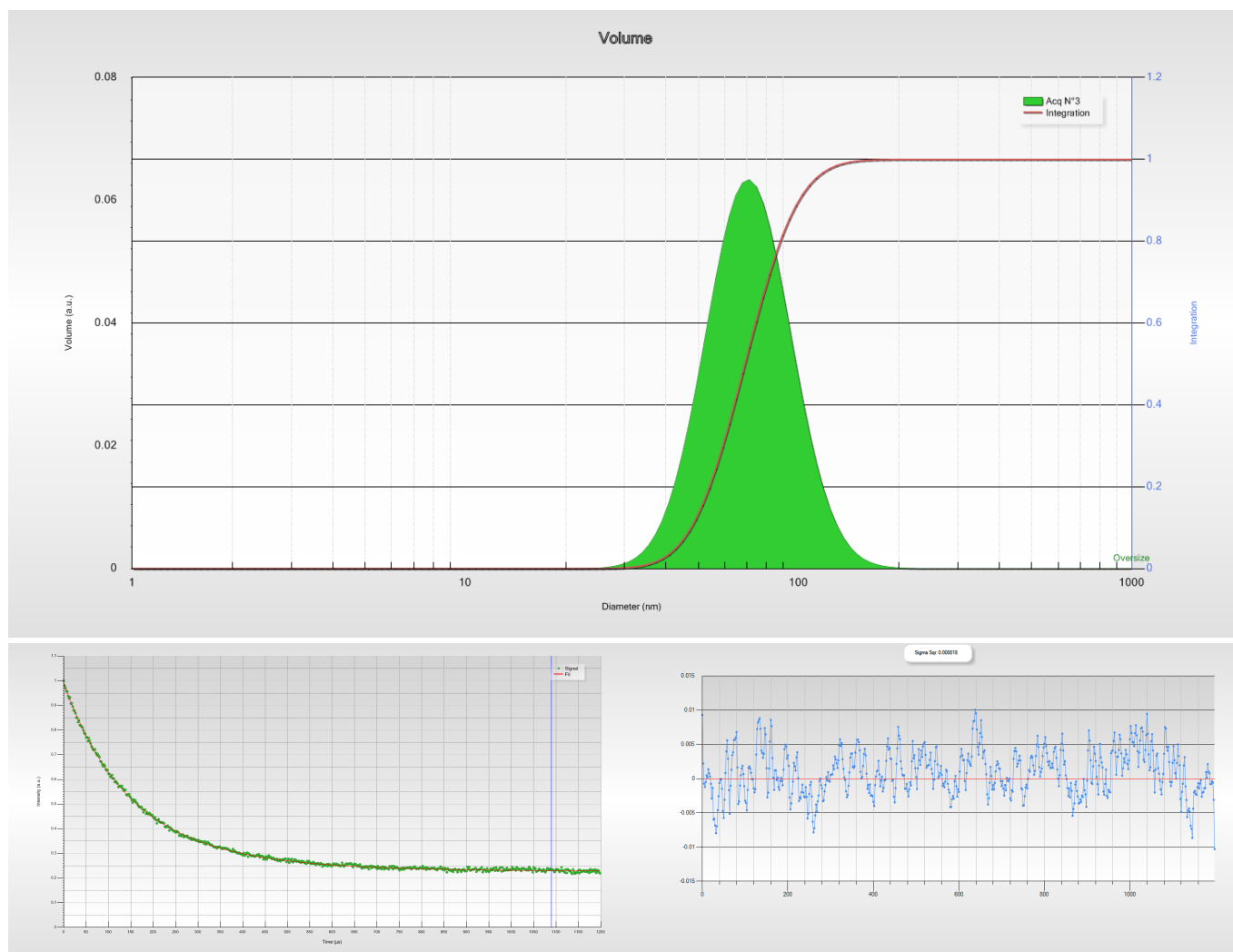
Dn 50%: 53.82 nm

Dn 90%: 77.91 nm

Std Dev: 29.19%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m²/s)
78.59	0.76	3305.63	62.53713E-013



Distribution statistics

Dv 10%: 49.06 nm

Dv 50%: 71.02 nm

Dv 90%: 102.81 nm

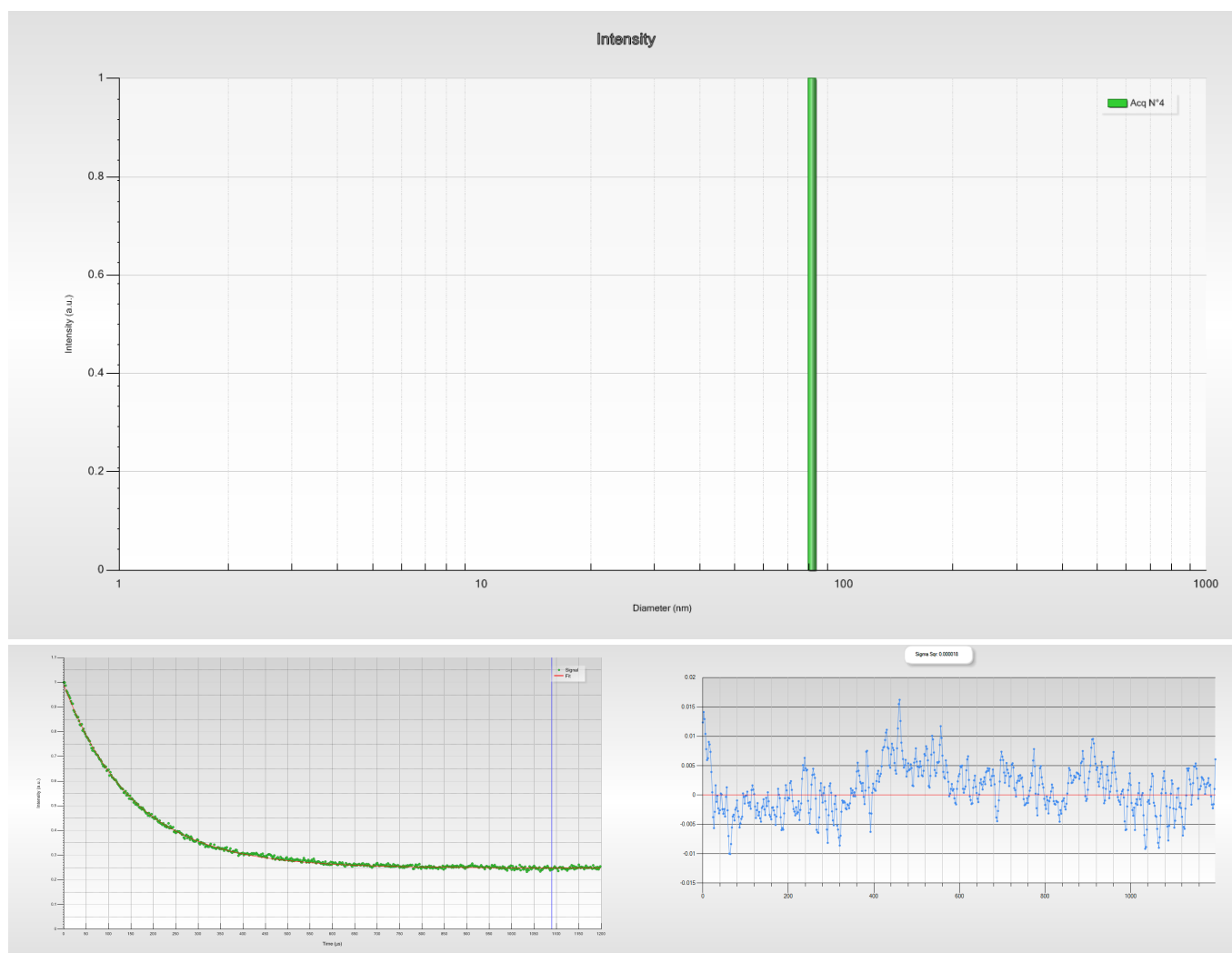
Mean Volume: 73.62 nm

PDI : 0.34082

Std Dev: 29.19%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
78.59	0.76	3305.63	62.53713E-013



Dispersion statistics

Di 10%: 81.59 nm
Mean Intensity: 81.59 nm

Di 50%: 81.59 nm

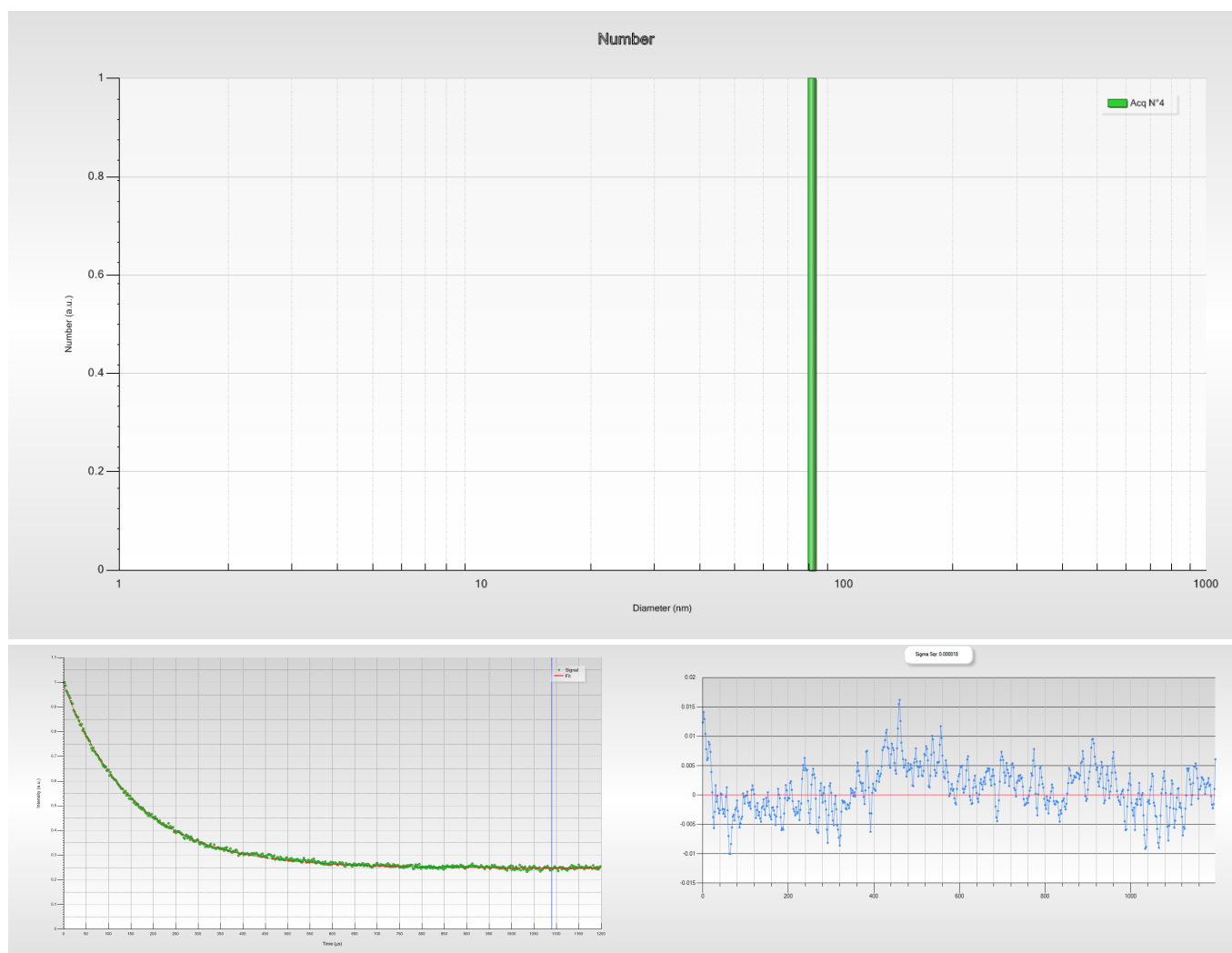
Di 90%: 81.59 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m²/s)
81.15	0.86	3201.32	60.56372E-013

Dispersion datas

Size (nm)	Intensity
81.59	1



Dispersion statistics

Dn 10%: 81.59 nm
Mean Number: 81.59 nm

Dn 50%: 81.59 nm

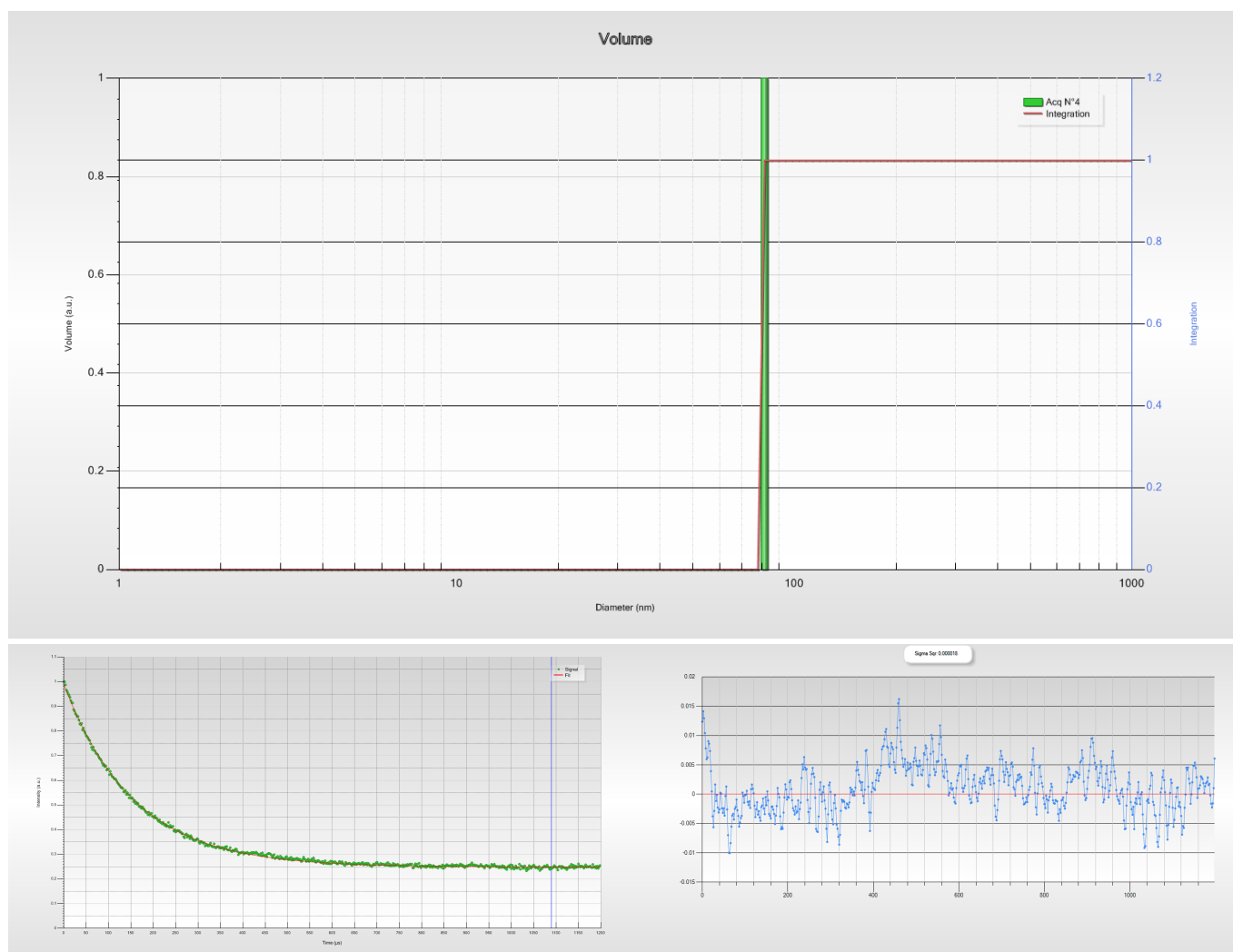
Dn 90%: 81.59 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
81.15	0.86	3201.32	60.56372E-013

Dispersion datas

Size (nm)	Number
81.59	1



Dispersion statistics

Dv 10%: 81.59 nm
Mean Volume: 81.59 nm

Dv 50%: 81.59 nm

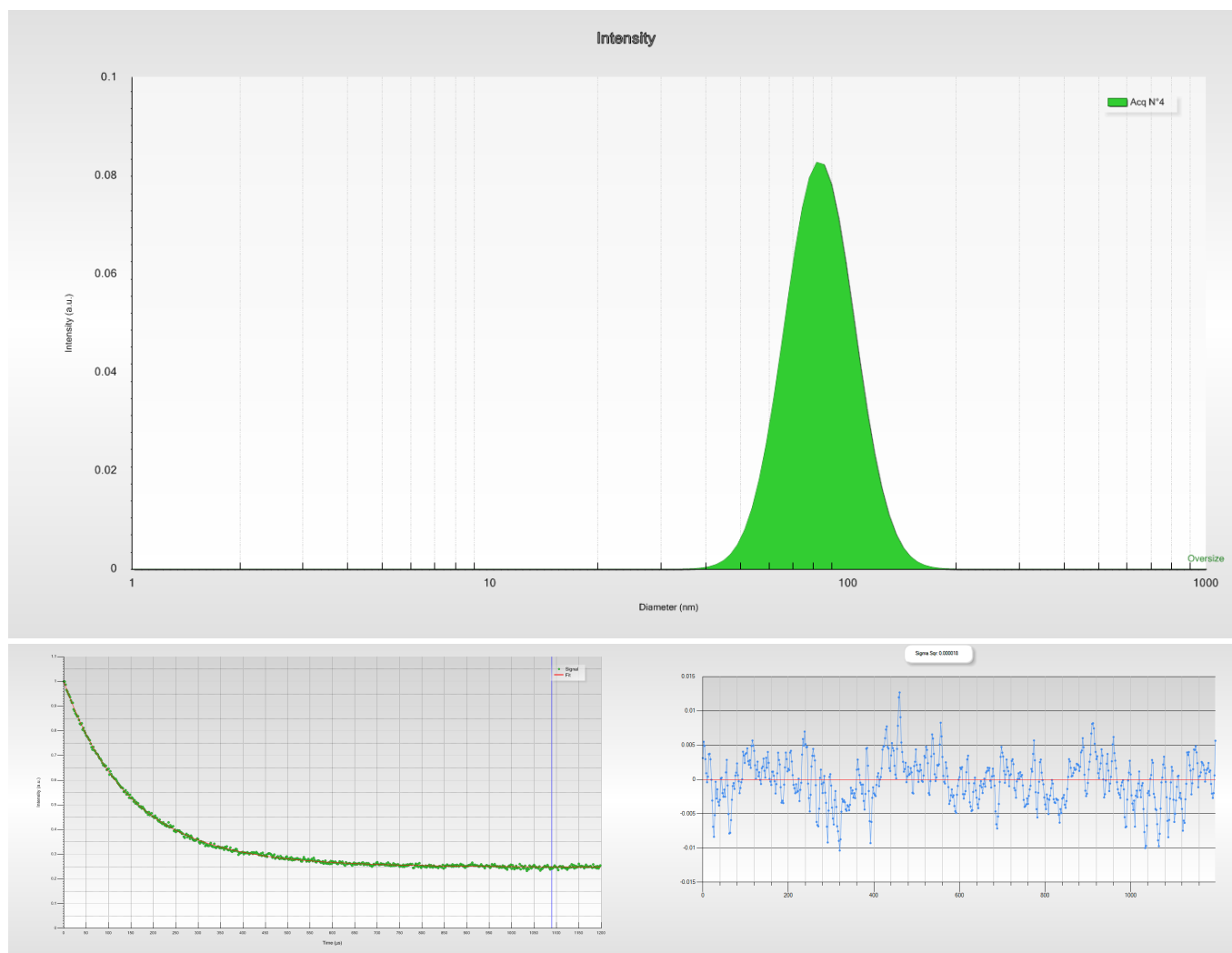
Dv 90%: 81.59 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
81.15	0.86	3201.32	60.56372E-013

Dispersion datas

Size (nm)	Volume
81.59	1

**Distribution statistics**

Di 10%: 61.83 nm
Mean Intensity: 85.09 nm
PDI : 0.20238

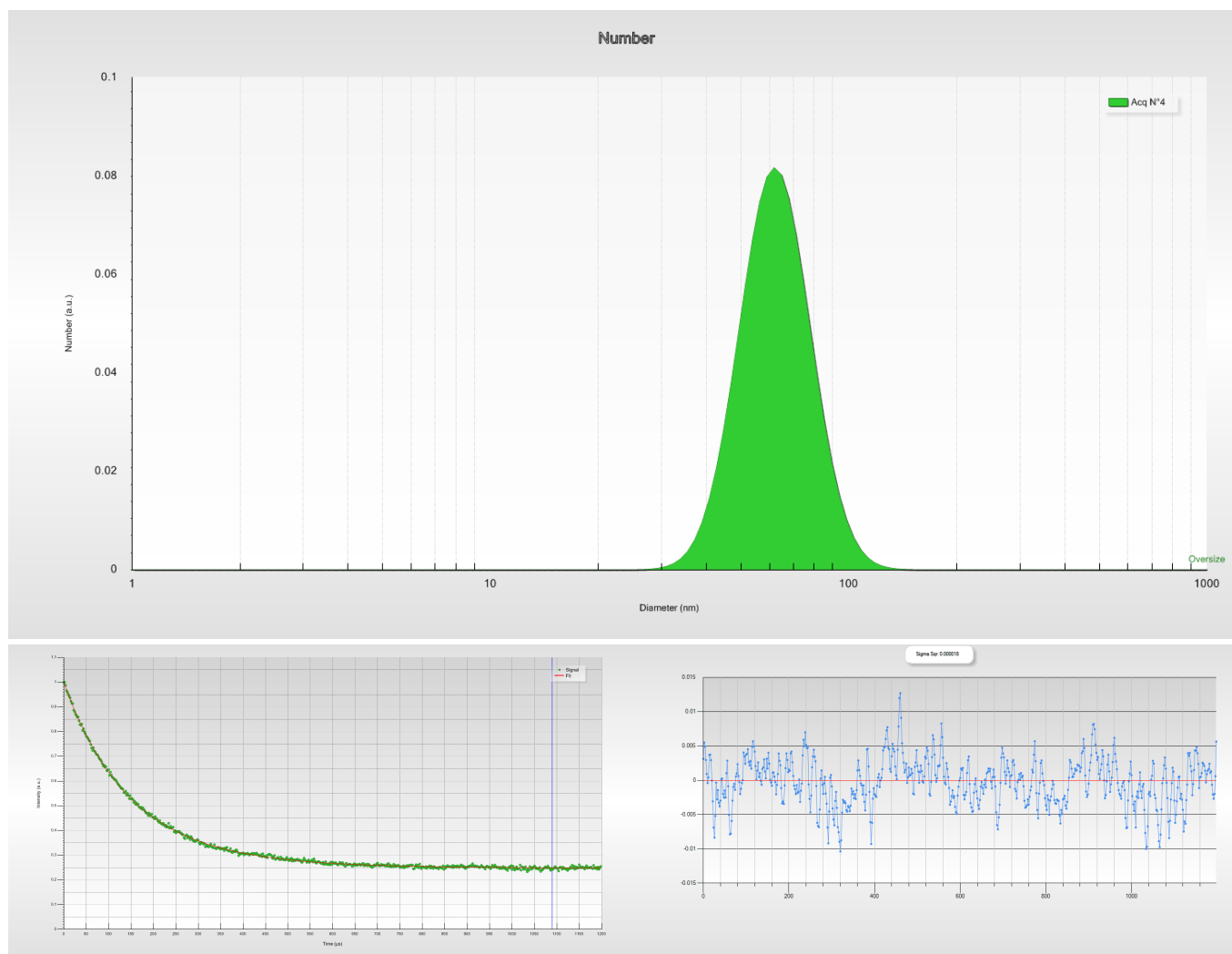
Di 50%: 81.59 nm

Di 90%: 112.77 nm

Std Dev: 22.49%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
77.07	0.75	3370.59	63.76617E-013

**Distribution statistics**

Dn 10%: 46.85 nm
Mean Number: 63.64 nm
PDI : 0.20238

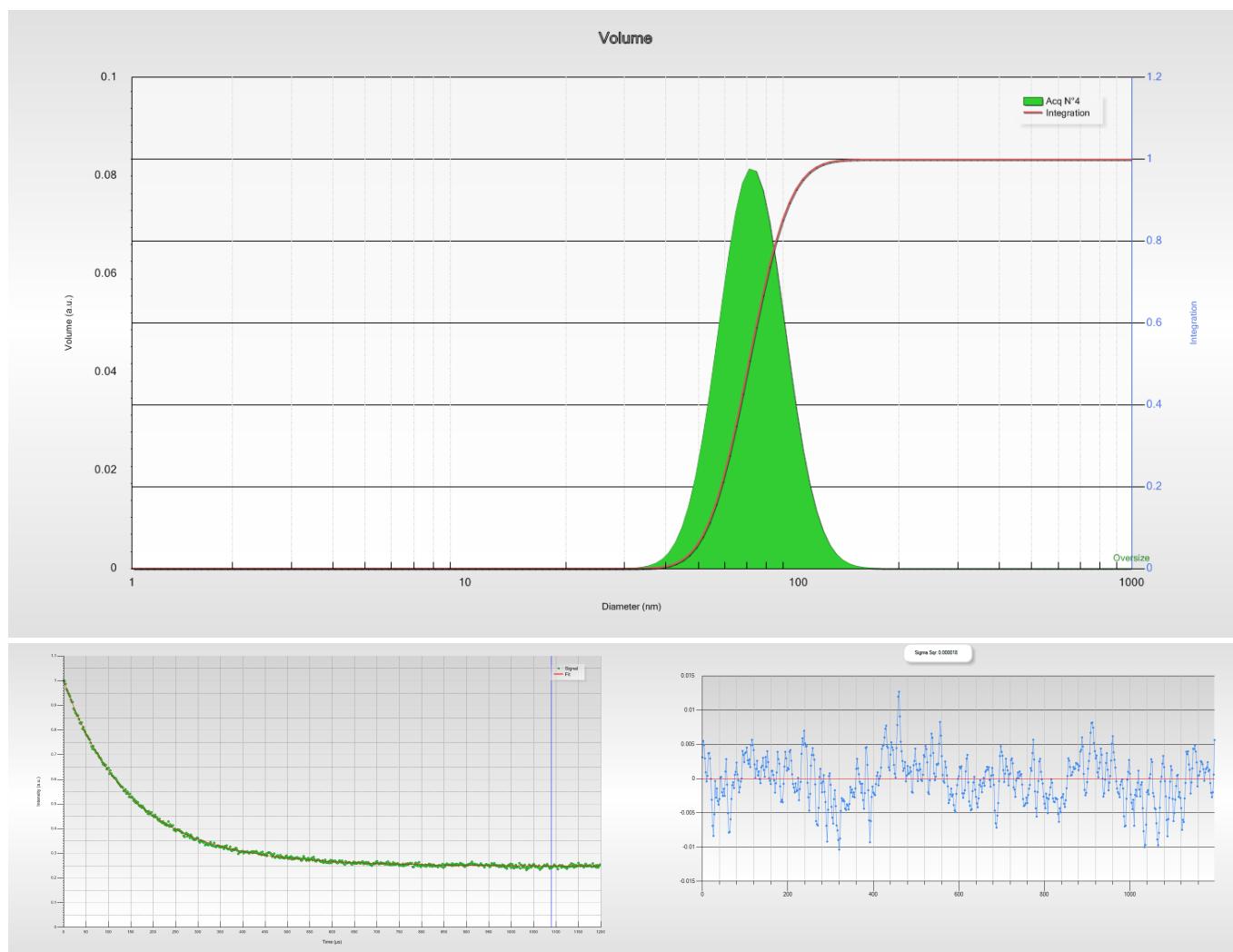
Dn 50%: 61.83 nm

Dn 90%: 81.59 nm

Std Dev: 22.49%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m²/s)
77.07	0.75	3370.59	63.76617E-013



Distribution statistics

Dv 10%: 53.82 nm
Mean Volume: 74.18 nm
PDI : 0.20238

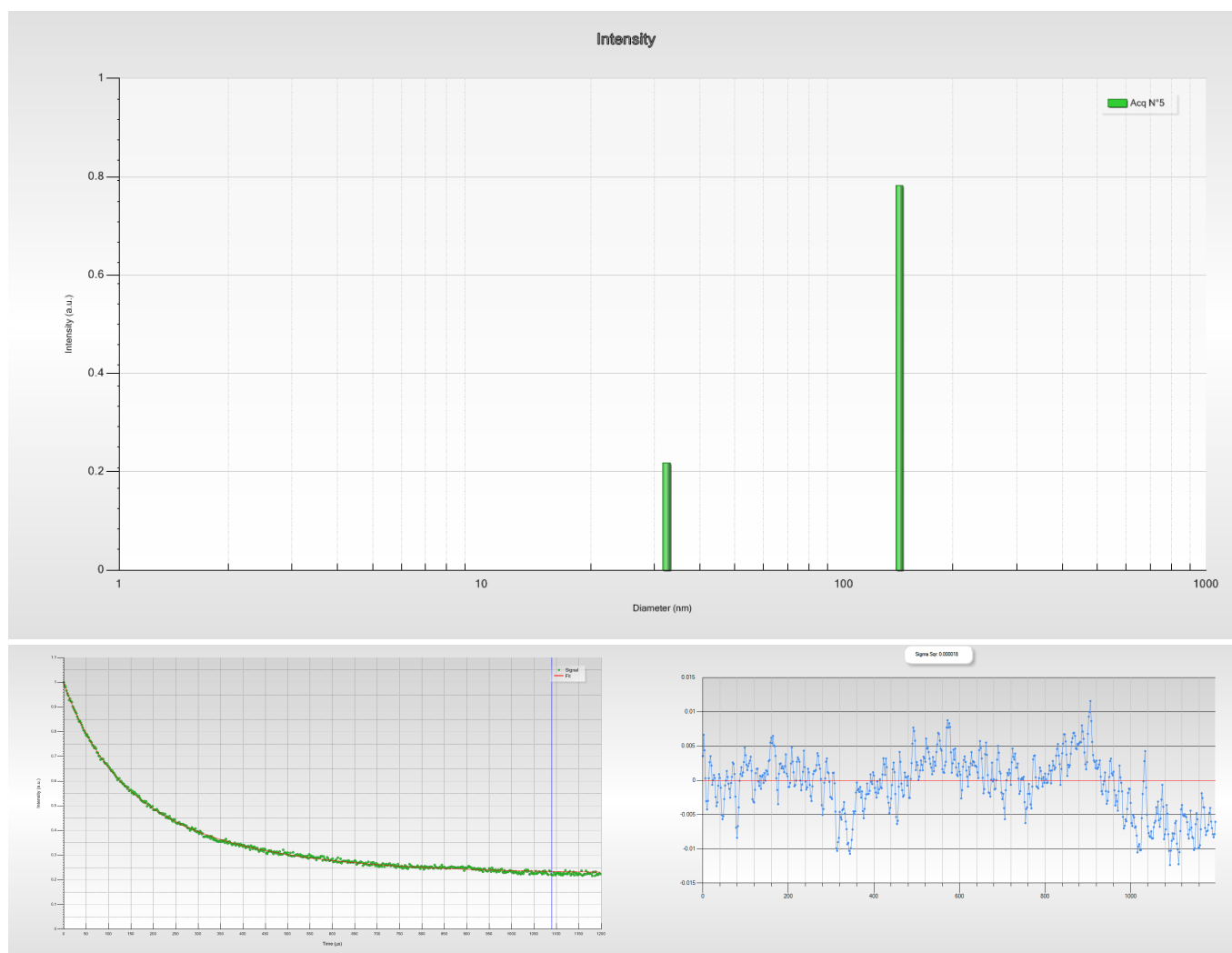
Dv 50%: 71.02 nm

Dv 90%: 98.17 nm

Std Dev: 22.49%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
77.07	0.75	3370.59	63.76617E-013



Dispersion statistics

Di 10%: 32.36 nm

Di 50%: 142.11 nm

Di 90%: 142.11 nm

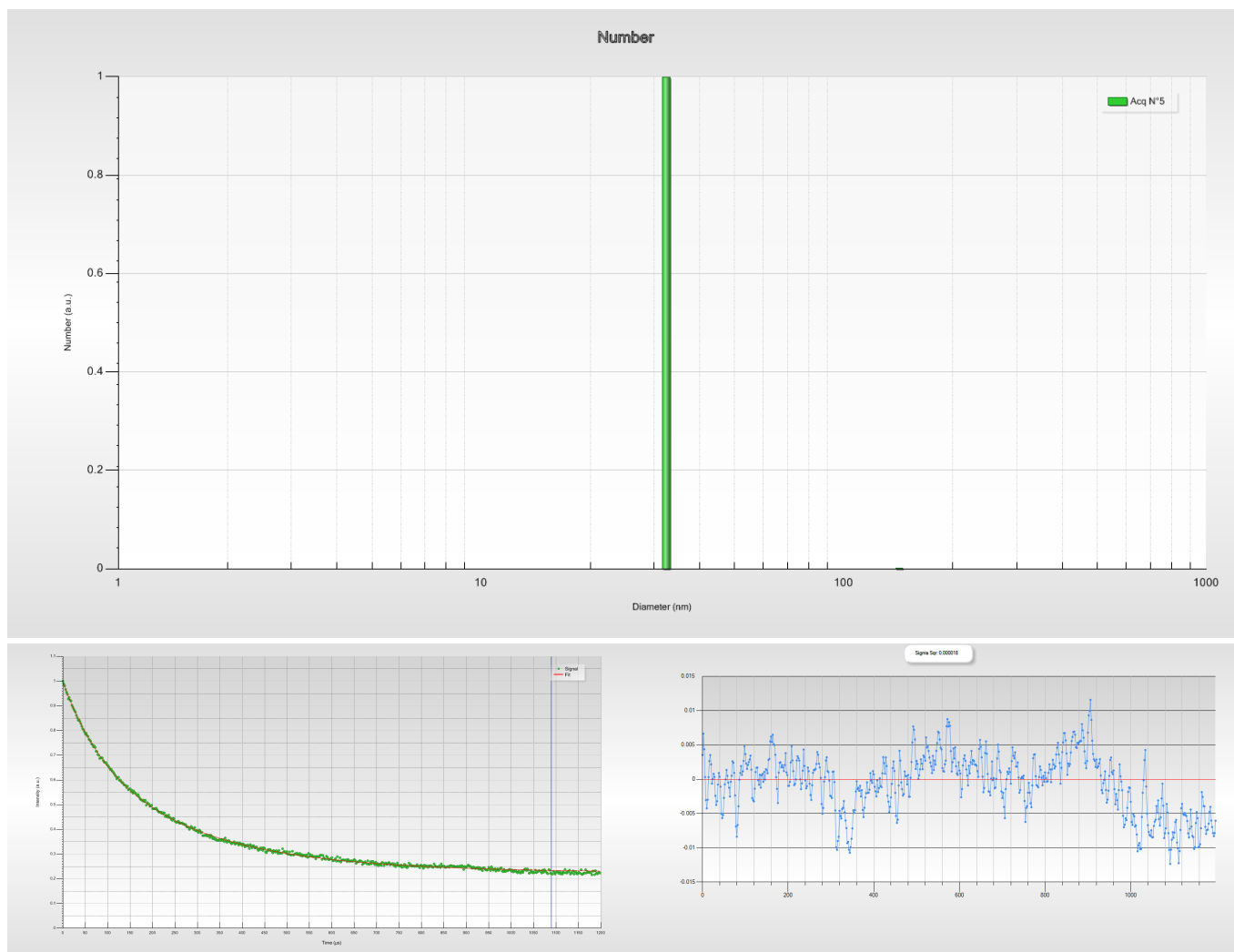
Mean Intensity: 118.22 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
31.87	0.19	8150.95	15.42028E-012
141.64	0.69	1834.19	34.69989E-013

Dispersion datas

Size (nm)	Intensity	Size (nm)	Intensity
32.36	0.22	142.11	0.78



Dispersion statistics

Dn 10%: 32.36 nm
Mean Number: 32.43 nm

Dn 50%: 32.36 nm

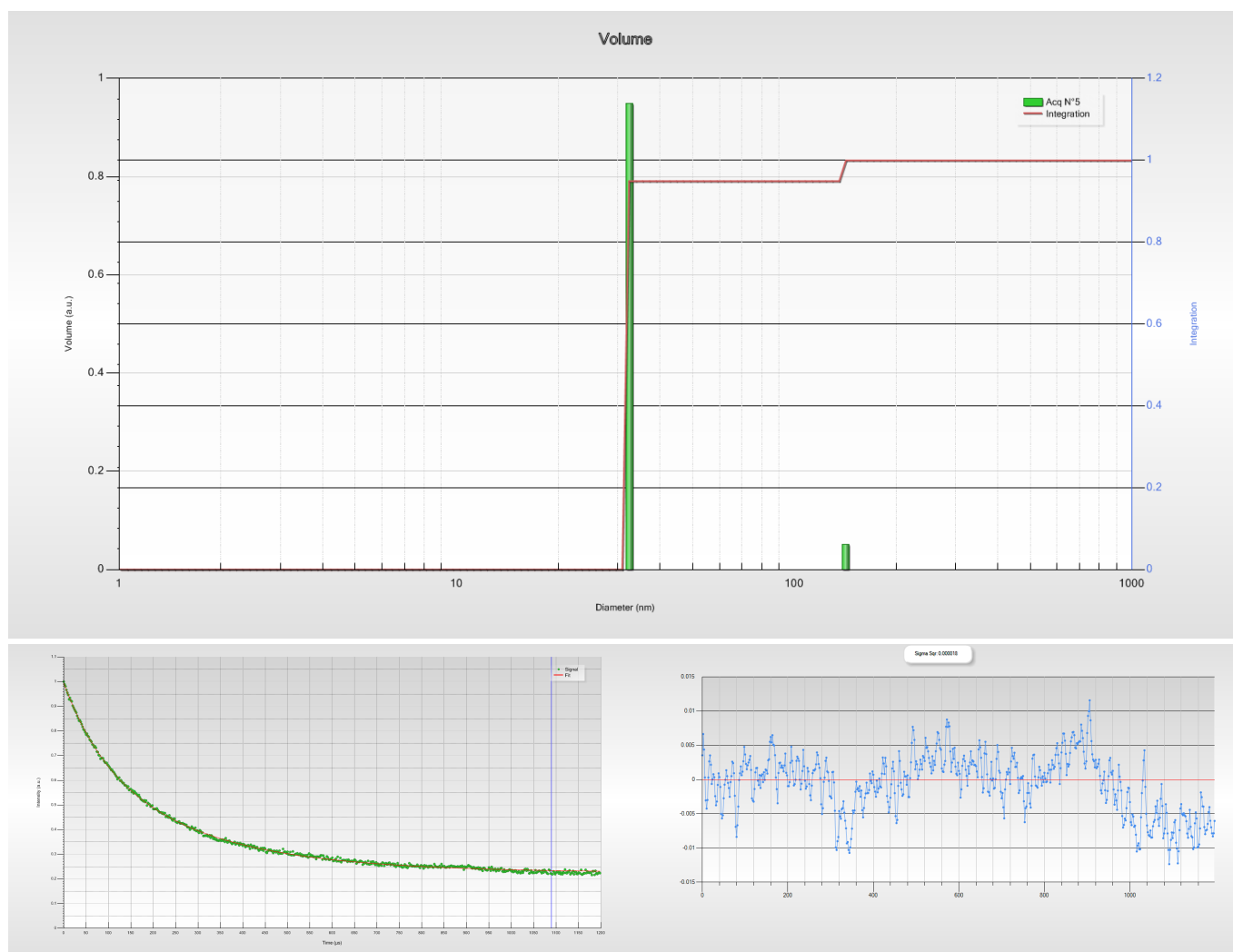
Dn 90%: 32.36 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
31.87	0.19	8150.95	15.42028E-012
141.64	0.69	1834.19	34.69989E-013

Dispersion datas

Size (nm)	Number
32.36	1



Dispersion statistics

Dv 10%: 32.36 nm
Mean Volume: 37.95 nm

Dv 50%: 32.36 nm

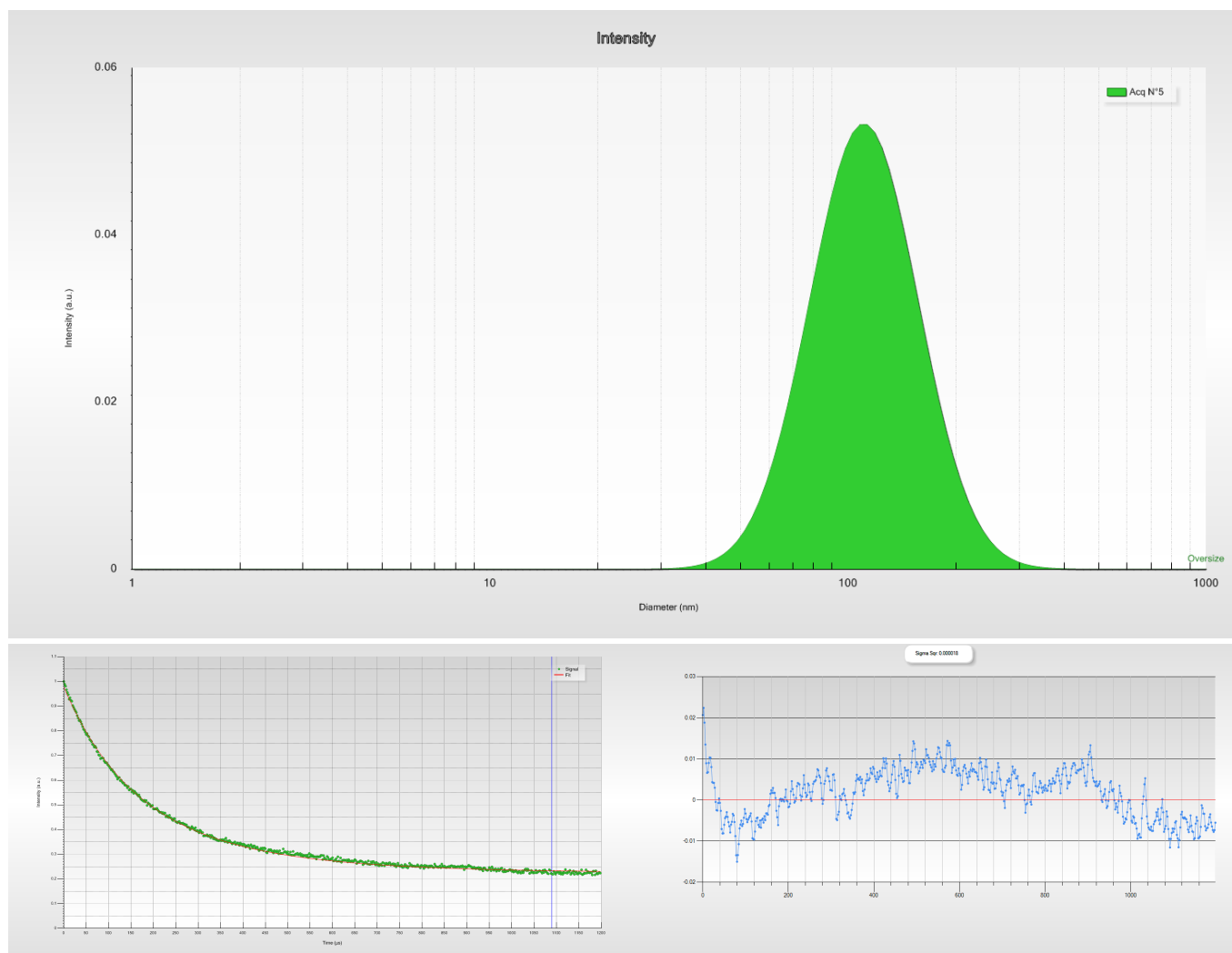
Dv 90%: 32.36 nm

Detected size(s)

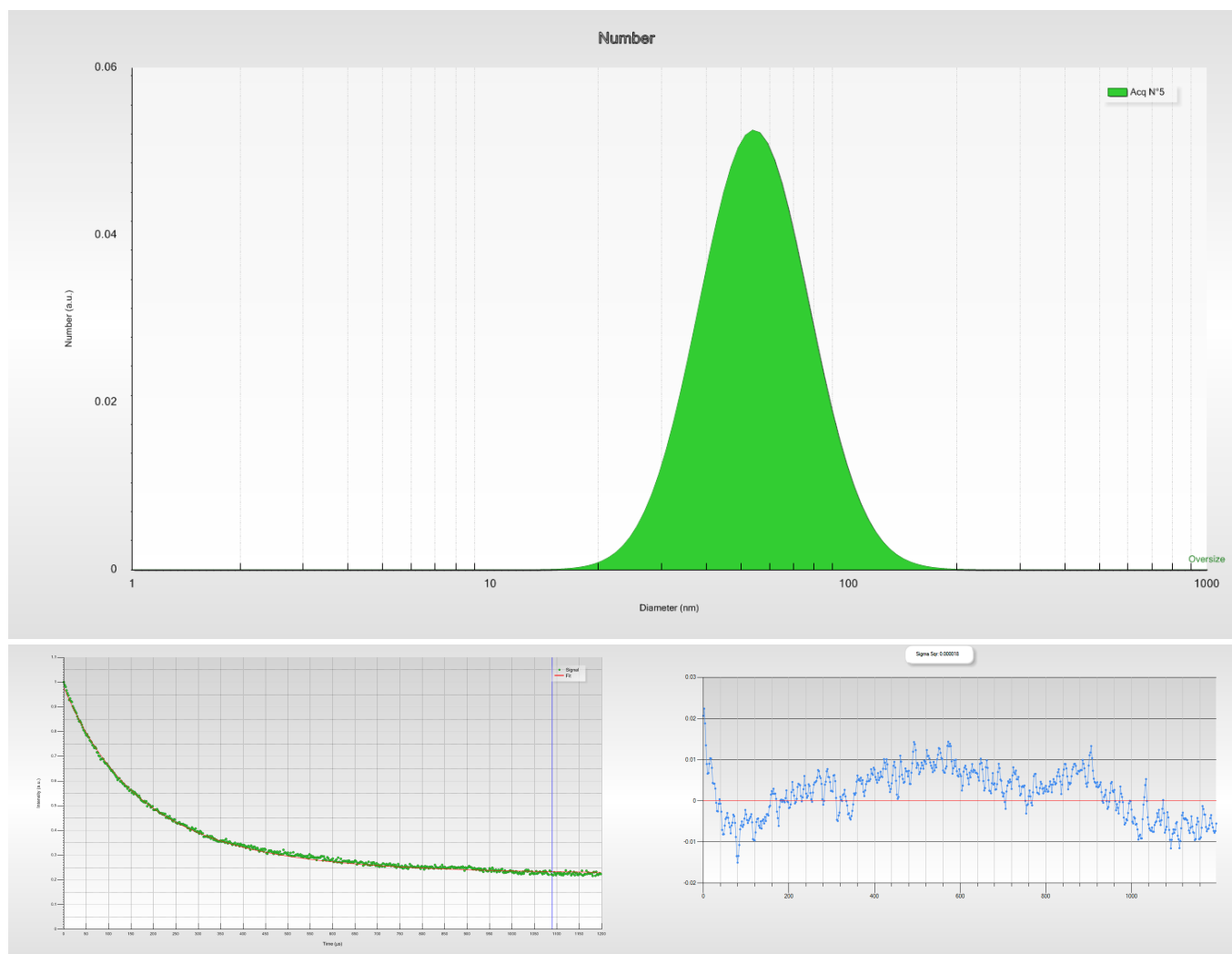
Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
31.87	0.19	8150.95	15.42028E-012
141.64	0.69	1834.19	34.69989E-013

Dispersion datas

Size (nm)	Volume	Size (nm)	Volume
32.36	0.95	142.11	0.05

**Distribution statistics****Di 10%:** 71.02 nm**Di 50%:** 112.77 nm**Di 90%:** 170.97 nm**Mean Intensity:** 117.18 nm**PDI** : 0.50855**Std Dev:** 35.66%**Detected size(s)**

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m²/s)
92.22	0.75	2817.1	53.29488E-013

**Distribution statistics**

Dn 10%: 35.5 nm
Mean Number: 57.88 nm
PDI : 0.50855

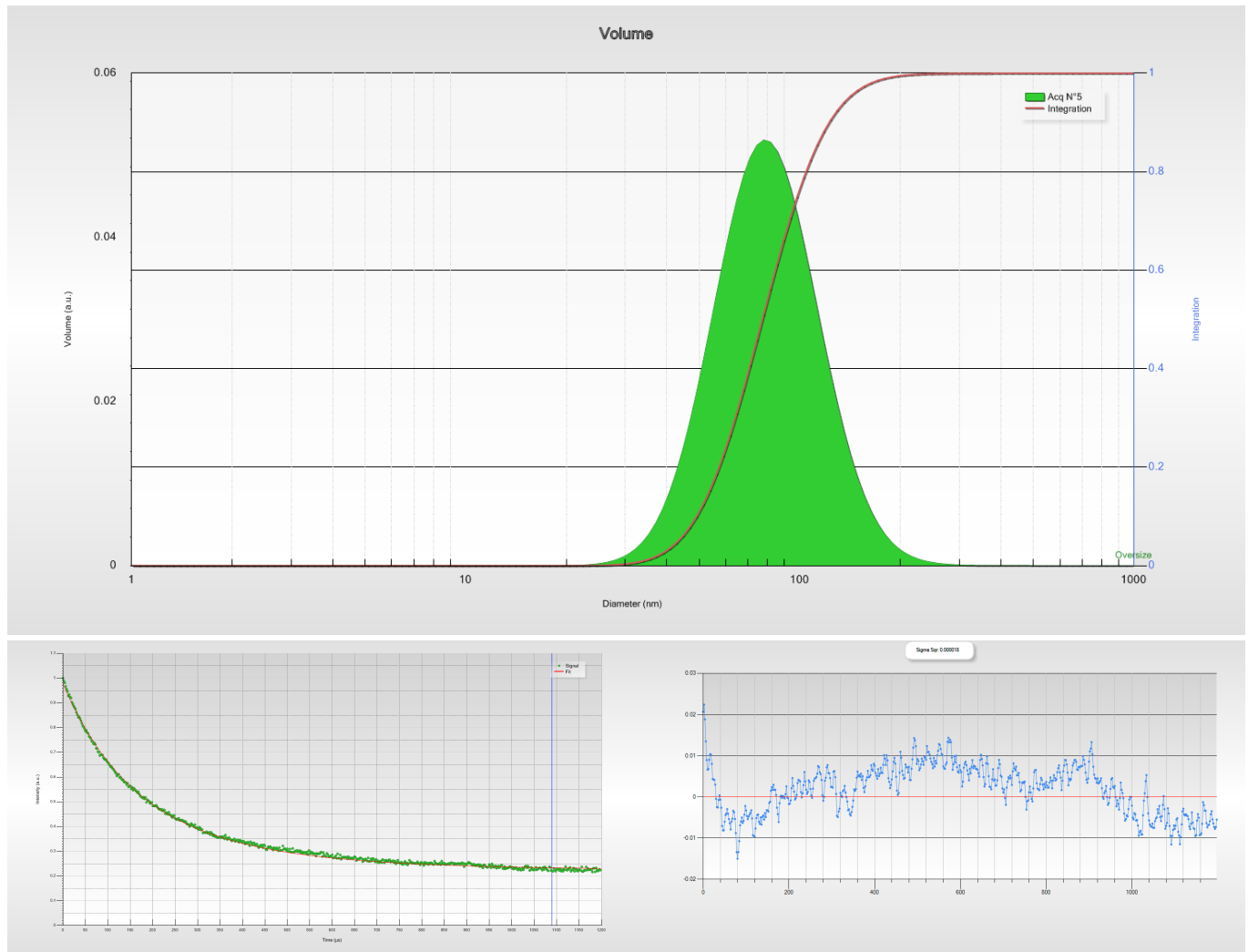
Dn 50%: 53.82 nm

Dn 90%: 85.45 nm

Std Dev: 35.66%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m²/s)
92.22	0.75	2817.1	53.29488E-013

**Distribution statistics**

Dv 10%: 51.39 nm
Mean Volume: 84.54 nm
PDI : 0.50855

Dv 50%: 77.91 nm

Dv 90%: 123.7 nm

Std Dev: 35.66%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m²/s)
92.22	0.75	2817.1	53.29488E-013