

Sample

Name : GNP_11.4.16_1.24_1k_2
Mesured On : 11.04.2016 19:01
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	: 58.1 %	Wavelength	: 657 nm
DTC Position	: UP		

Liquid Medium

Refractive index	: 1.331	Viscosity	: 0.888 cP
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Particles

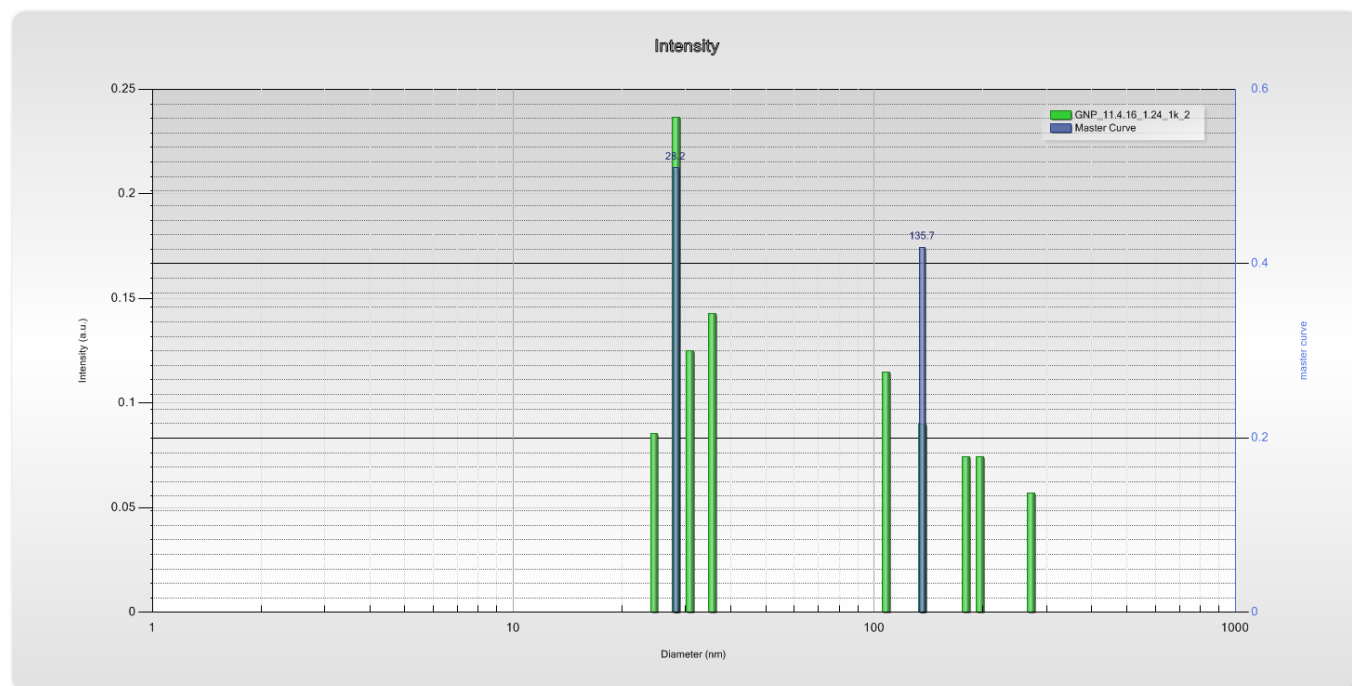
Real part	: 1.56	Imaginary part	: 0.01
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Algorithm

Pade Laplace	Cumulants
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Measurement

Average count rate : 2881 kcps **Duration** : 00:05:18
Number of rejected : 0 **Number of modified** : 0



Dispersion statistics

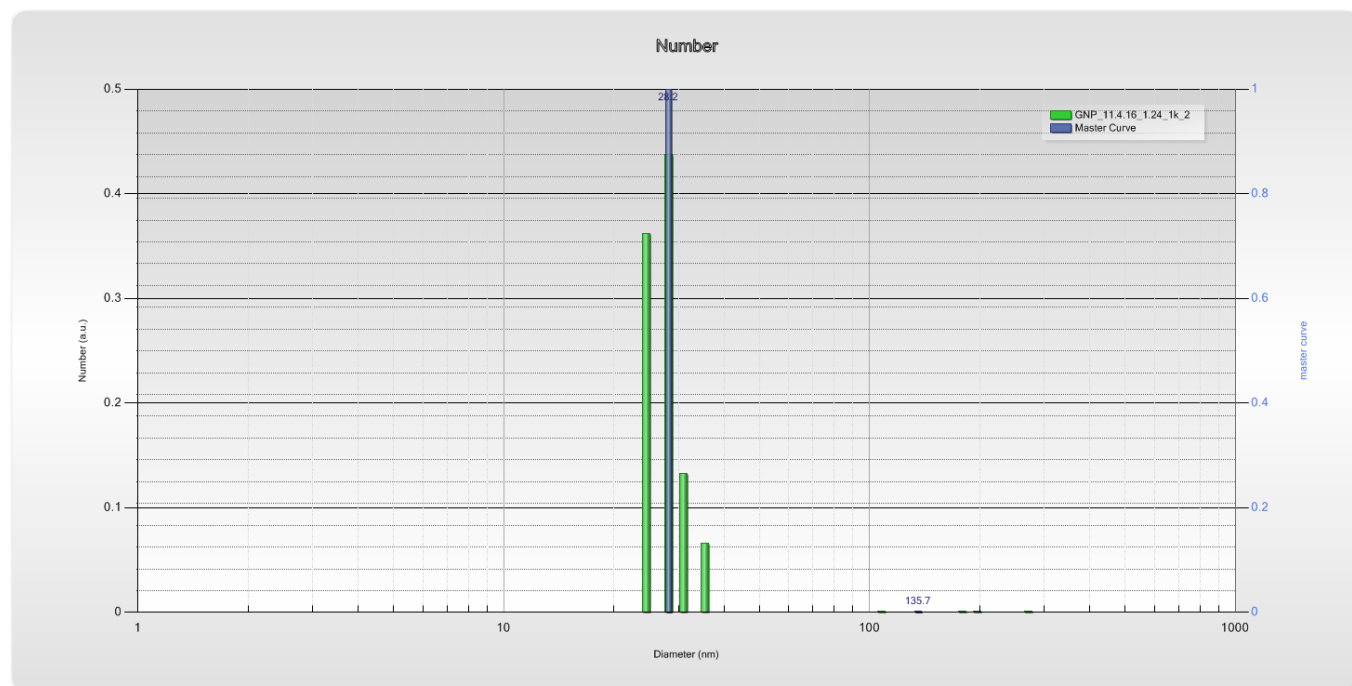
Di 10%: 28.17 nm

Di 50%: 35.5 nm

Di 90%: 196.41 nm

Dispersion datas

Size (nm)	Intensity	Size (nm)	Intensity	Size (nm)	Intensity	Size (nm)	Intensity
24.52	0.09	35.5	0.14	179.07	0.07		
28.17	0.24	107.68	0.11	196.41	0.07		
30.9	0.12	135.68	0.09	271.48	0.06		



Dispersion statistics

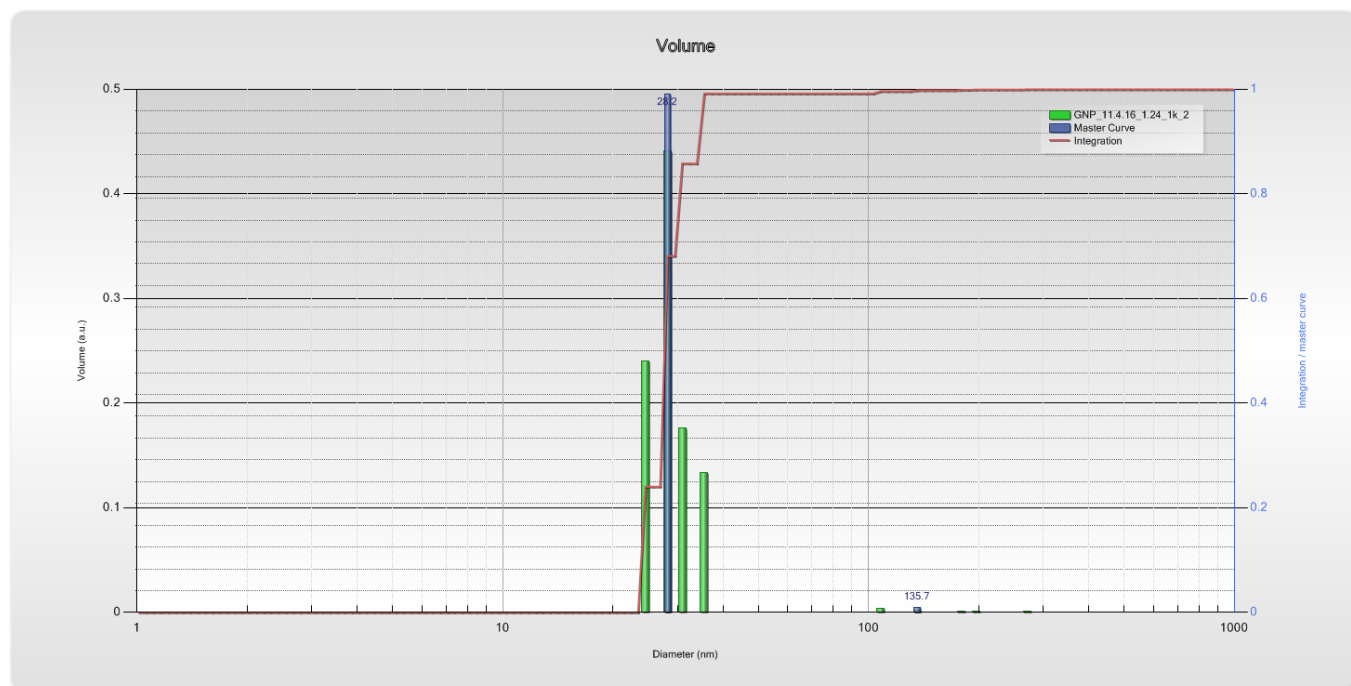
Dn 10%: 24.52 nm

Dn 50%: 28.17 nm

Dn 90%: 30.9 nm

Dispersion datas

Size (nm)	Number	Size (nm)	Number	Size (nm)	Number	Size (nm)	Number
24.52	0.36	30.9	0.13				
28.17	0.44	35.5	0.07				



Dispersion statistics

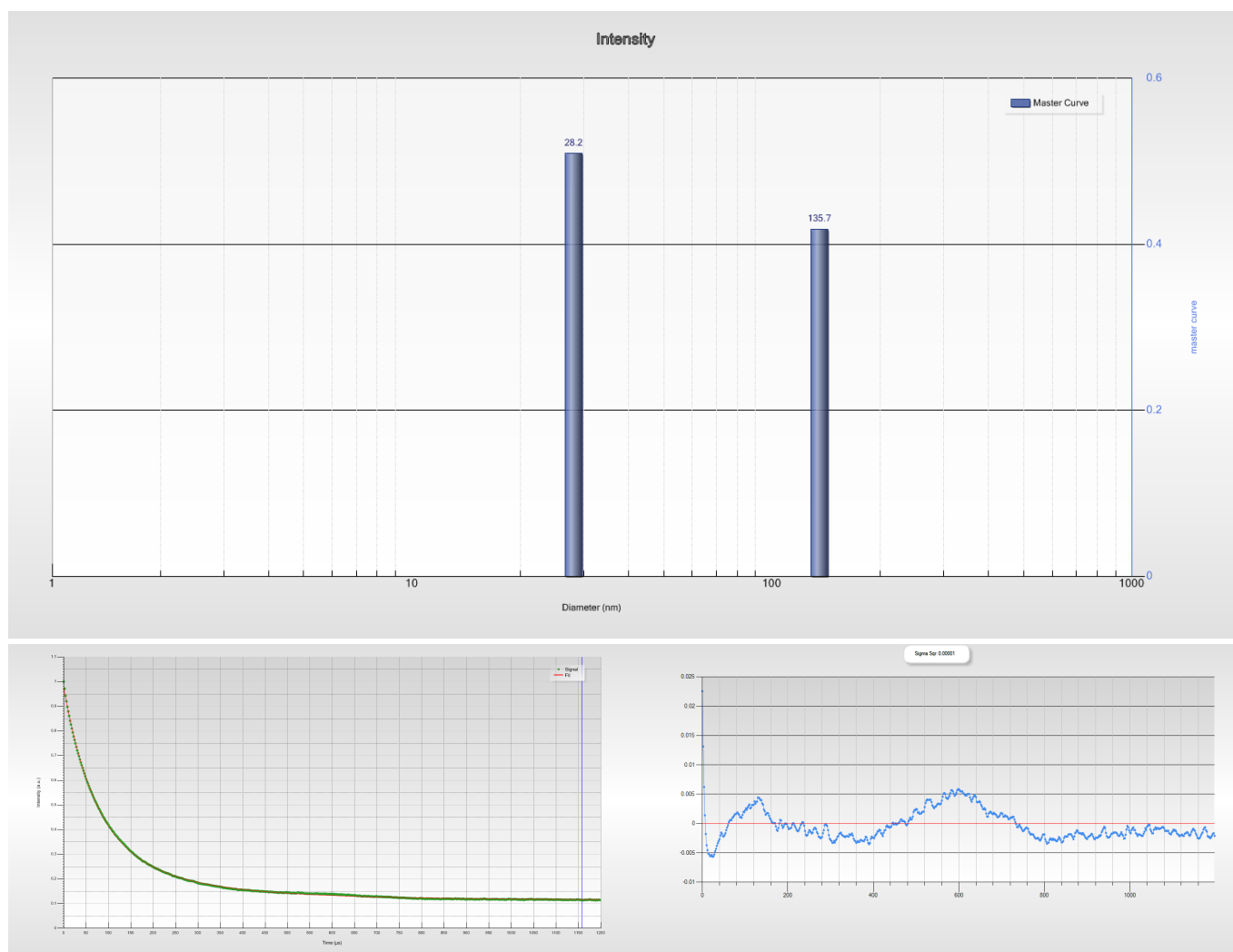
Dv 10%: 24.52 nm

Dv 50%: 28.17 nm

Dv 90%: 35.5 nm

Dispersion datas

Size (nm)	Volume	Size (nm)	Volume	Size (nm)	Volume	Size (nm)	Volume
24.52	0.24	30.9	0.18				
28.17	0.44	35.5	0.13				



Dispersion statistics

Di 10%: 28.17 nm

Di 50%: 28.17 nm

Di 90%: 135.68 nm

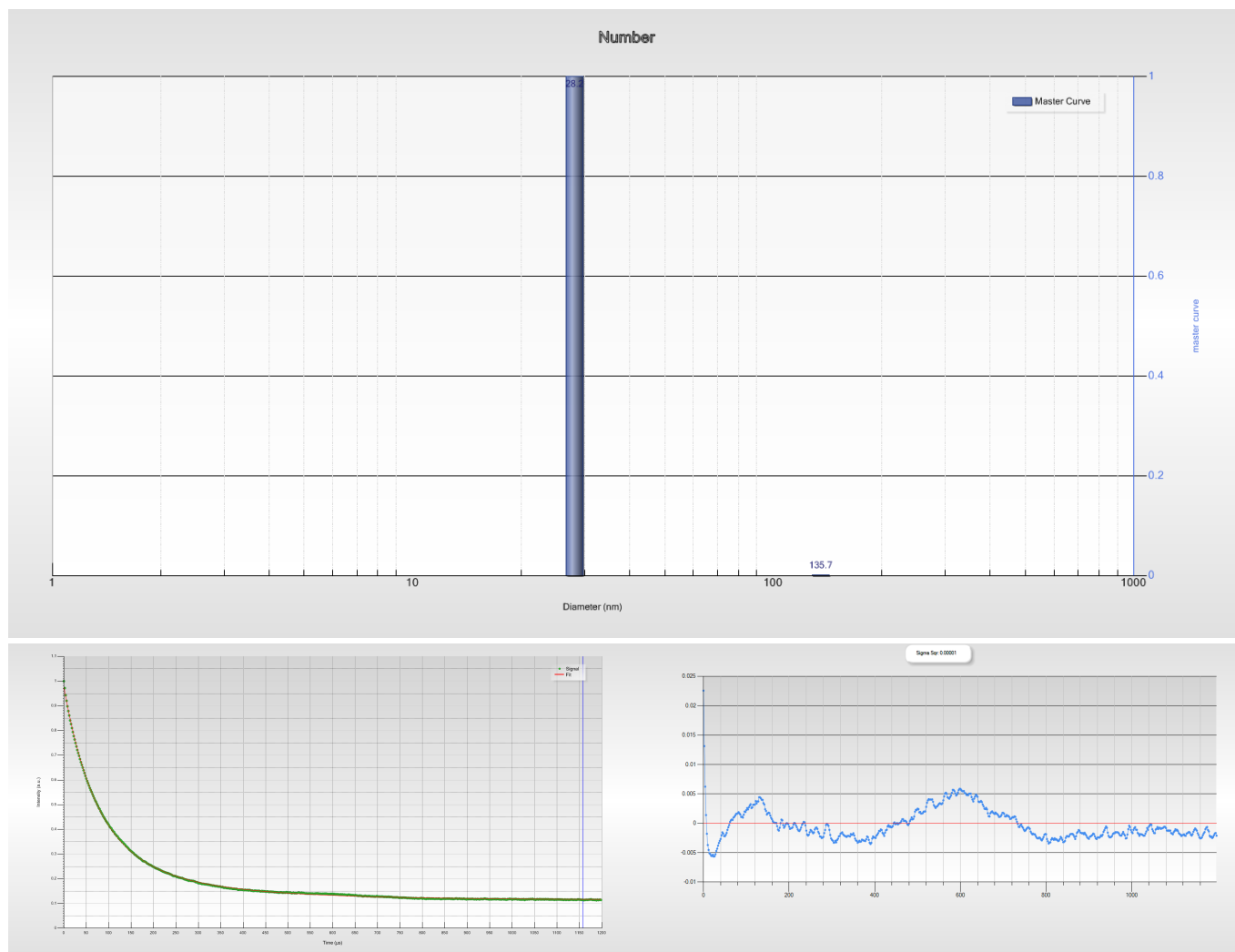
Mean Intensity: 76.65 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
28.25	0.51	9195.26	17.39595E-012
134.7	0.42	1928.58	36.48554E-013

Dispersion datas

Size (nm)	Intensity	Size (nm)	Intensity
28.17	0.55	135.68	0.45



Dispersion statistics

Dn 10%: 28.17 nm
Mean Number: 28.18 nm

Dn 50%: 28.17 nm

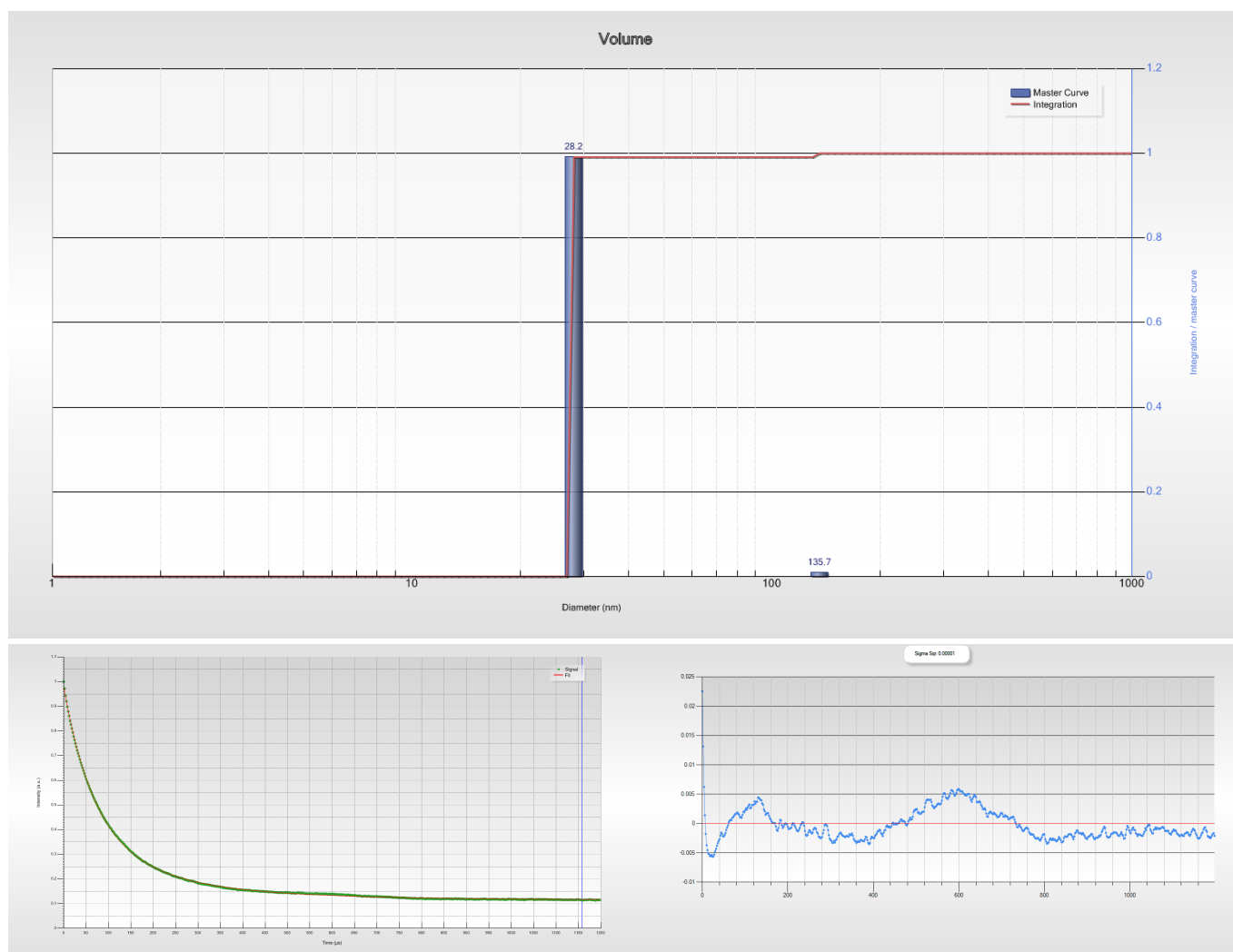
Dn 90%: 28.17 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
28.25	0.51	9195.26	17.39595E-012
134.7	0.42	1928.58	36.48554E-013

Dispersion datas

Size (nm)	Number
28.17	1



Dispersion statistics

Dv 10%: 28.17 nm
Mean Volume: 29.14 nm

Dv 50%: 28.17 nm

Dv 90%: 28.17 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
28.25	0.51	9195.26	17.39595E-012
134.7	0.42	1928.58	36.48554E-013

Dispersion datas

Size (nm)	Volume	Size (nm)	Volume
28.17	0.99	135.68	0.01

**Distribution statistics**

Di 10%: 37.18 nm
Mean Intensity: 61.3 nm
PDI : 0.52384

Di 50%: 56.36 nm

Di 90%: 89.5 nm

Std Dev: 36.19%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m²/s)
47.92	0.84	5421.76	10.25709E-012

**Distribution statistics**

Dn 10%: 17.74 nm
Mean Number: 29.4 nm
PDI : 0.52384

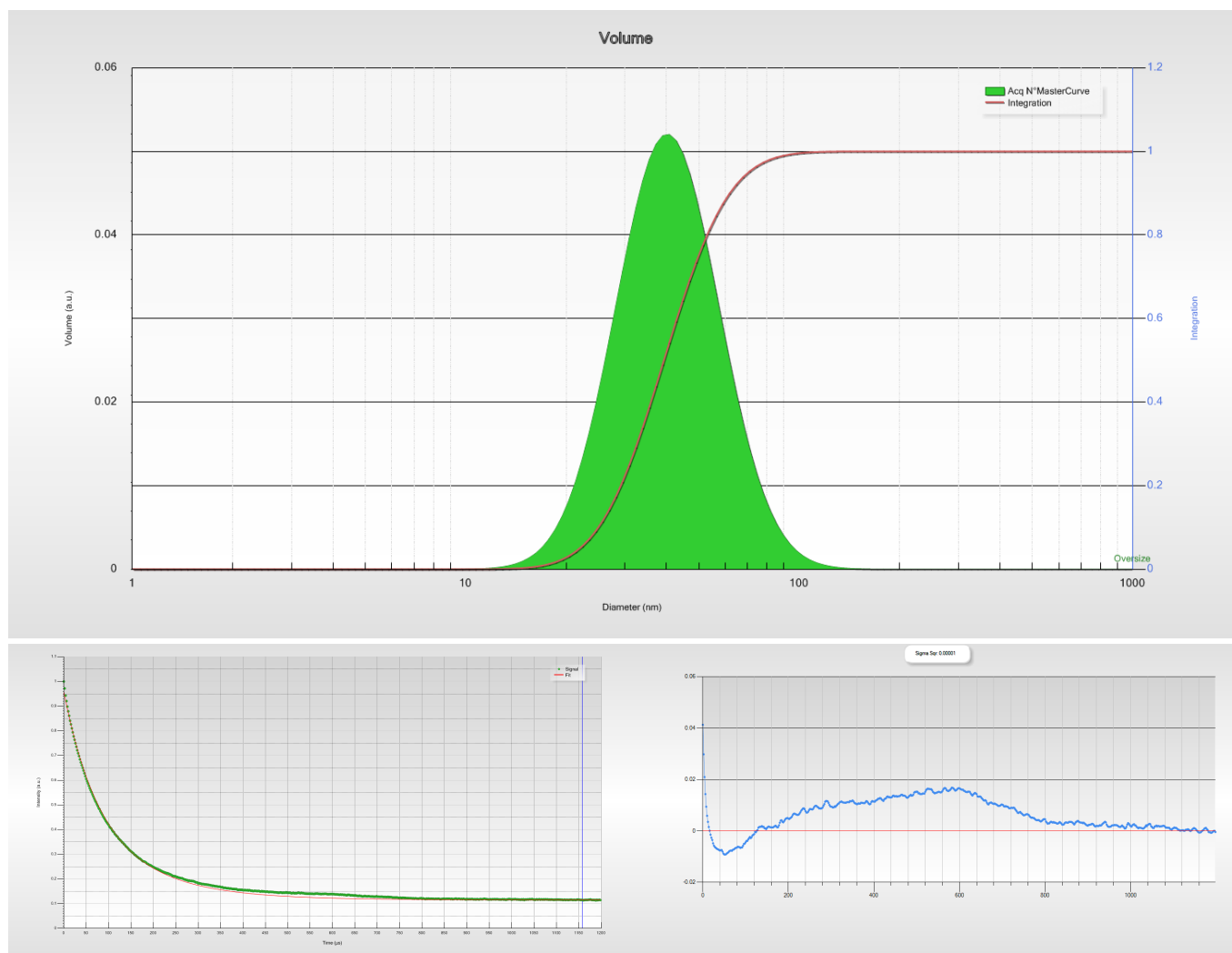
Dn 50%: 28.17 nm

Dn 90%: 42.71 nm

Std Dev: 36.19%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m²/s)
47.92	0.84	5421.76	10.25709E-012



Distribution statistics

Dv 10%: 25.68 nm
Mean Volume: 42.82 nm
PDI : 0.52384

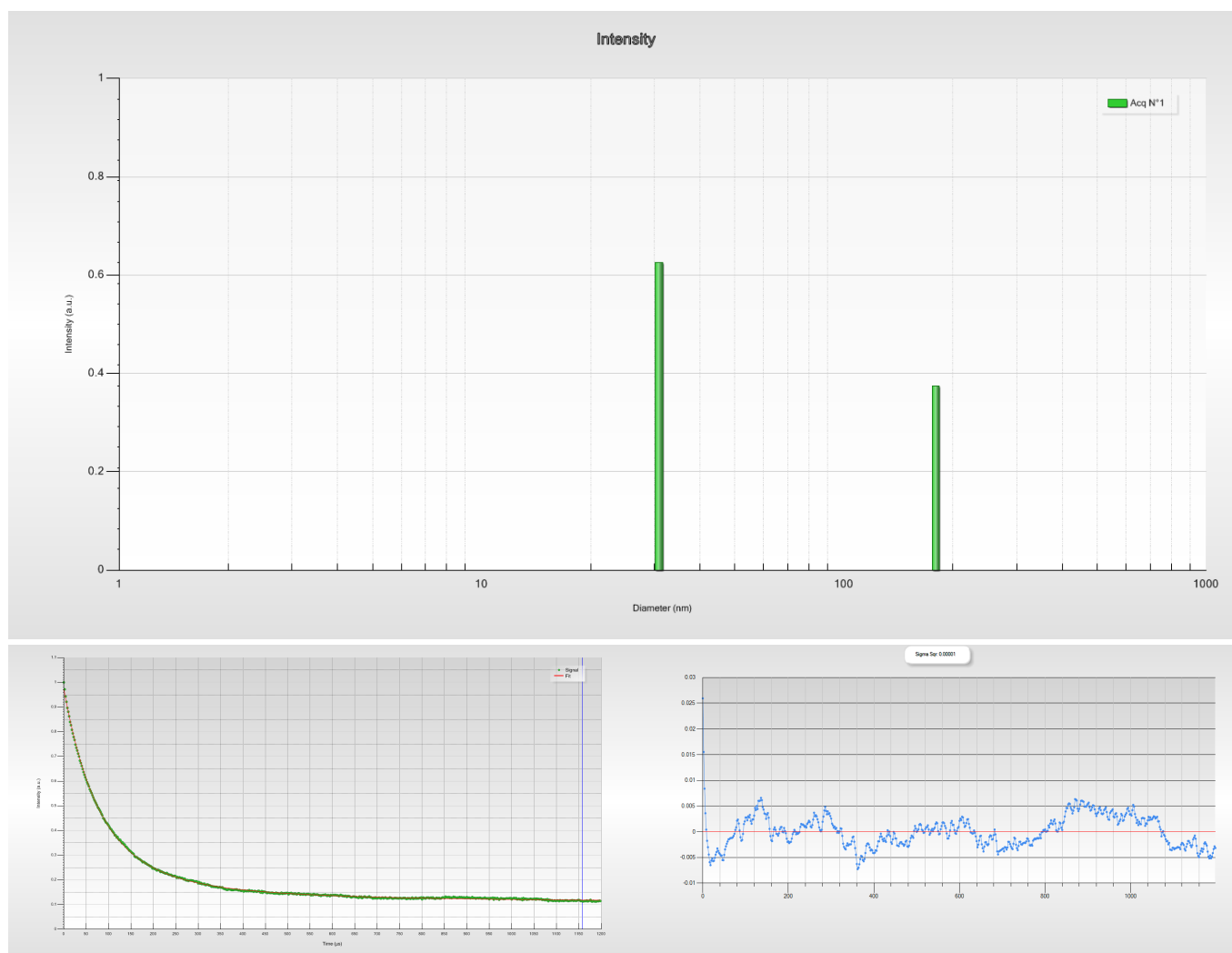
Dv 50%: 40.78 nm

Dv 90%: 64.75 nm

Std Dev: 36.19%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
47.92	0.84	5421.76	10.25709E-012



Dispersion statistics

Di 10%: 30.9 nm

Di 50%: 30.9 nm

Di 90%: 179.07 nm

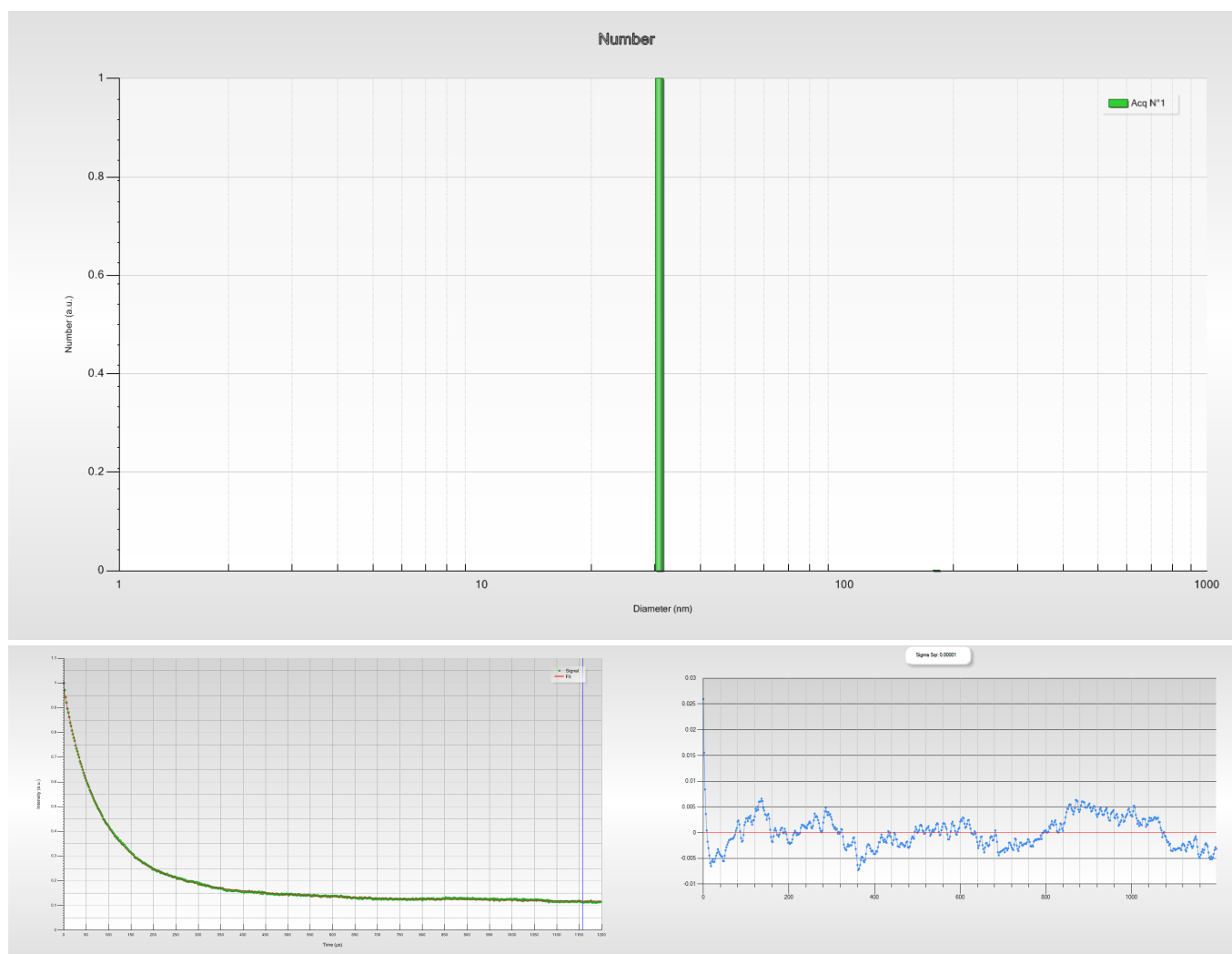
Mean Intensity: 86.31 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
30.97	0.58	8388.3	15.8693E-012
176.98	0.35	1467.89	27.77006E-013

Dispersion datas

Size (nm)	Intensity	Size (nm)	Intensity
30.9	0.63	179.07	0.37



Dispersion statistics

Dn 10%: 30.9 nm
Mean Number: 30.9 nm

Dn 50%: 30.9 nm

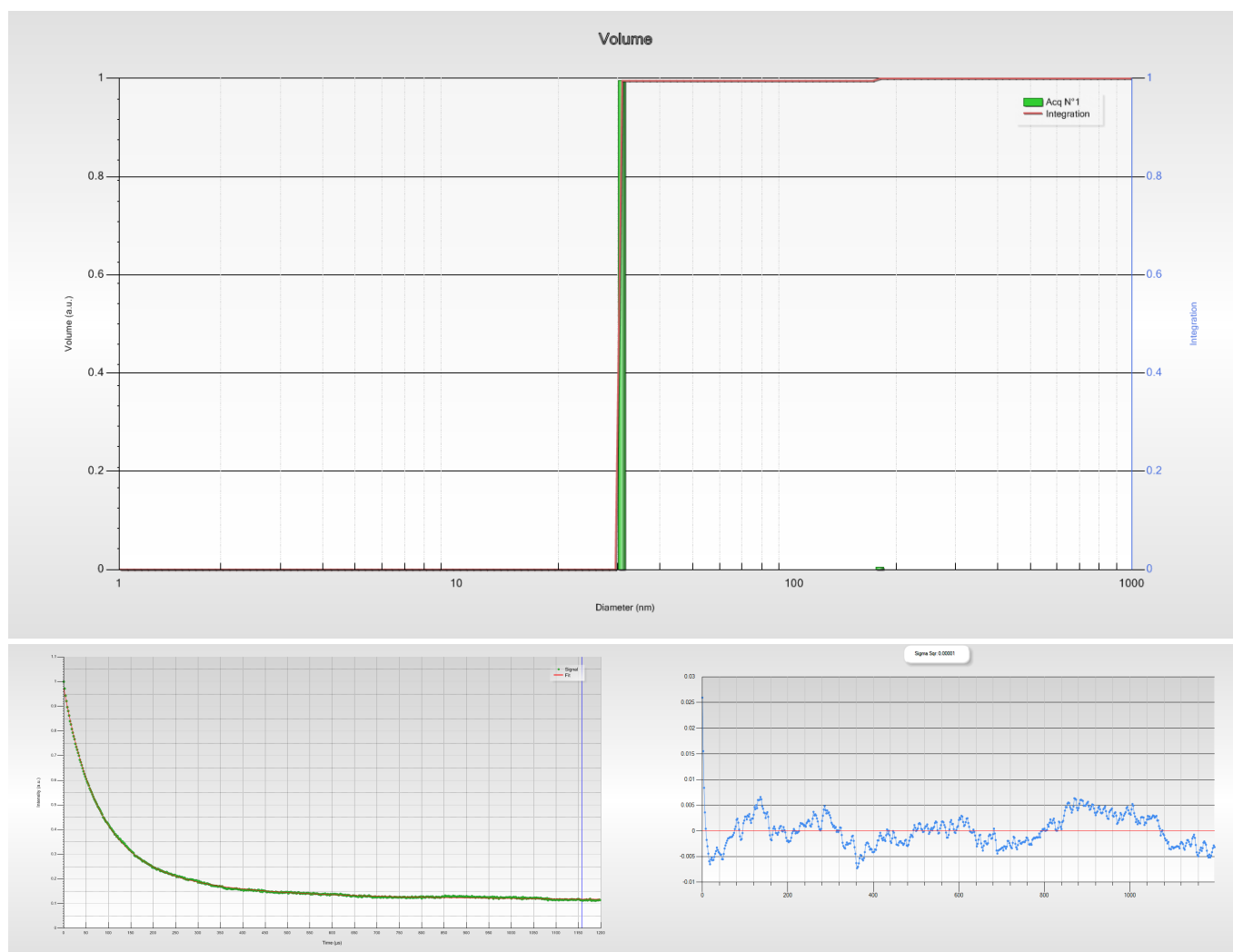
Dn 90%: 30.9 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
30.97	0.58	8388.3	15.8693E-012
176.98	0.35	1467.89	27.77006E-013

Dispersion datas

Size (nm)	Number
30.9	1



Dispersion statistics

Dv 10%: 30.9 nm
Mean Volume: 31.57 nm

Dv 50%: 30.9 nm

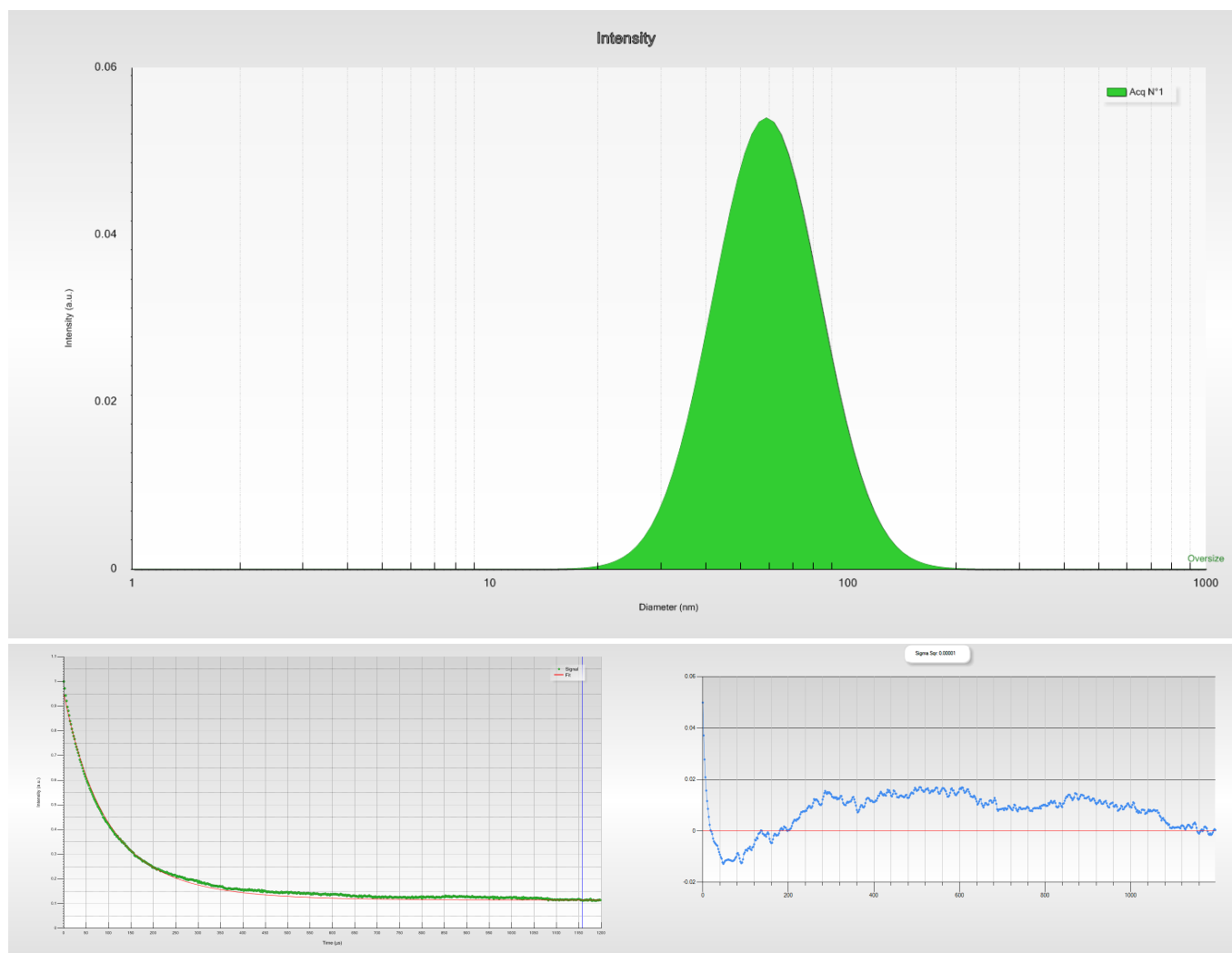
Dv 90%: 30.9 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m²/s)
30.97	0.58	8388.3	15.8693E-012
176.98	0.35	1467.89	27.77006E-013

Dispersion datas

Size (nm)	Volume
30.9	1

**Distribution statistics**

Di 10%: 38.94 nm
Mean Intensity: 62.58 nm
PDI : 0.49503

Di 50%: 59.03 nm

Di 90%: 89.5 nm

Std Dev: 35.18%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m²/s)
49.54	0.84	5243.74	99.20315E-013

**Distribution statistics**

Dn 10%: 18.58 nm
Mean Number: 31.19 nm
PDI : 0.49503

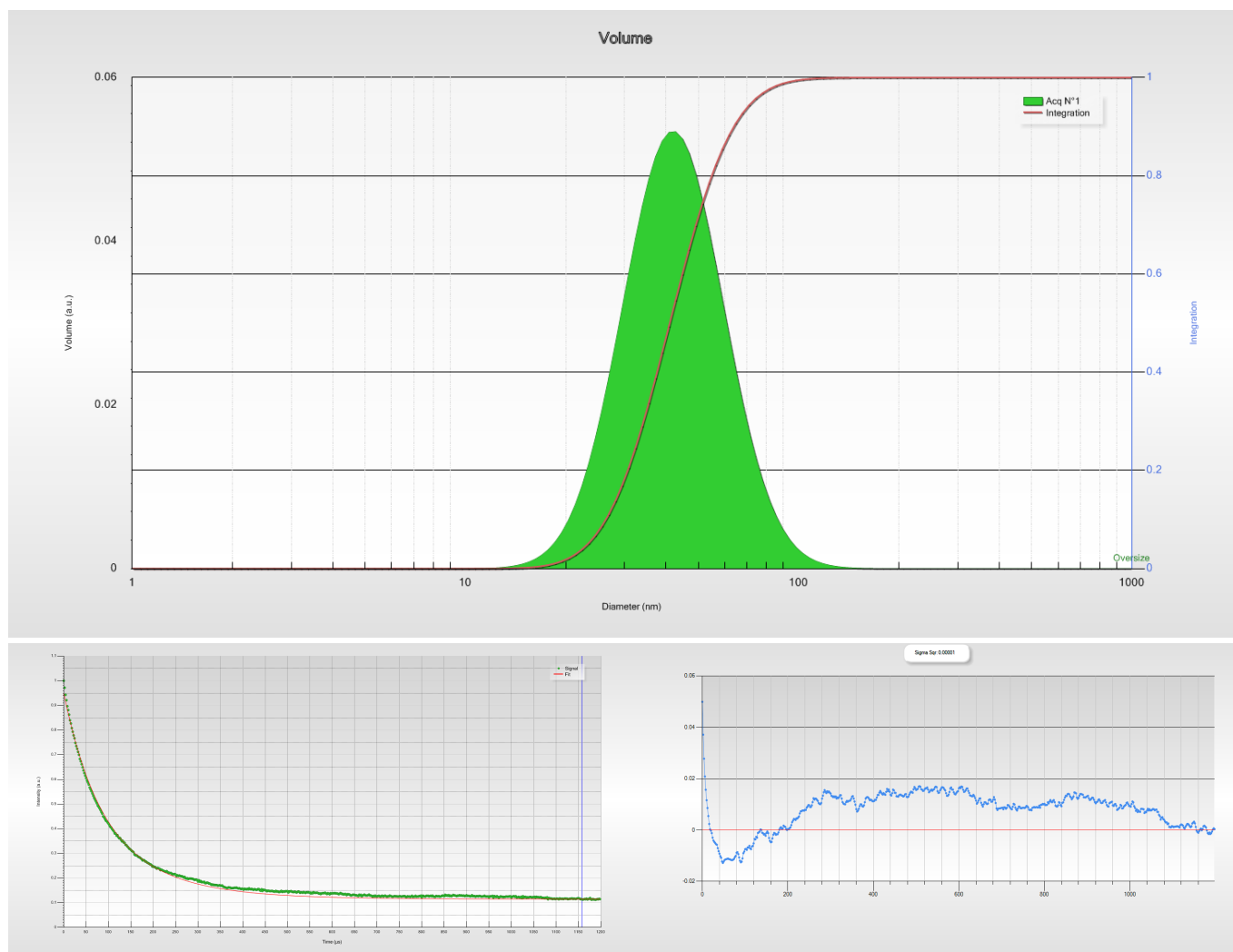
Dn 50%: 29.5 nm

Dn 90%: 44.73 nm

Std Dev: 35.18%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m²/s)
49.54	0.84	5243.74	99.20315E-013



Distribution statistics

Dv 10%: 26.9 nm
Mean Volume: 44.56 nm
PDI : 0.49503

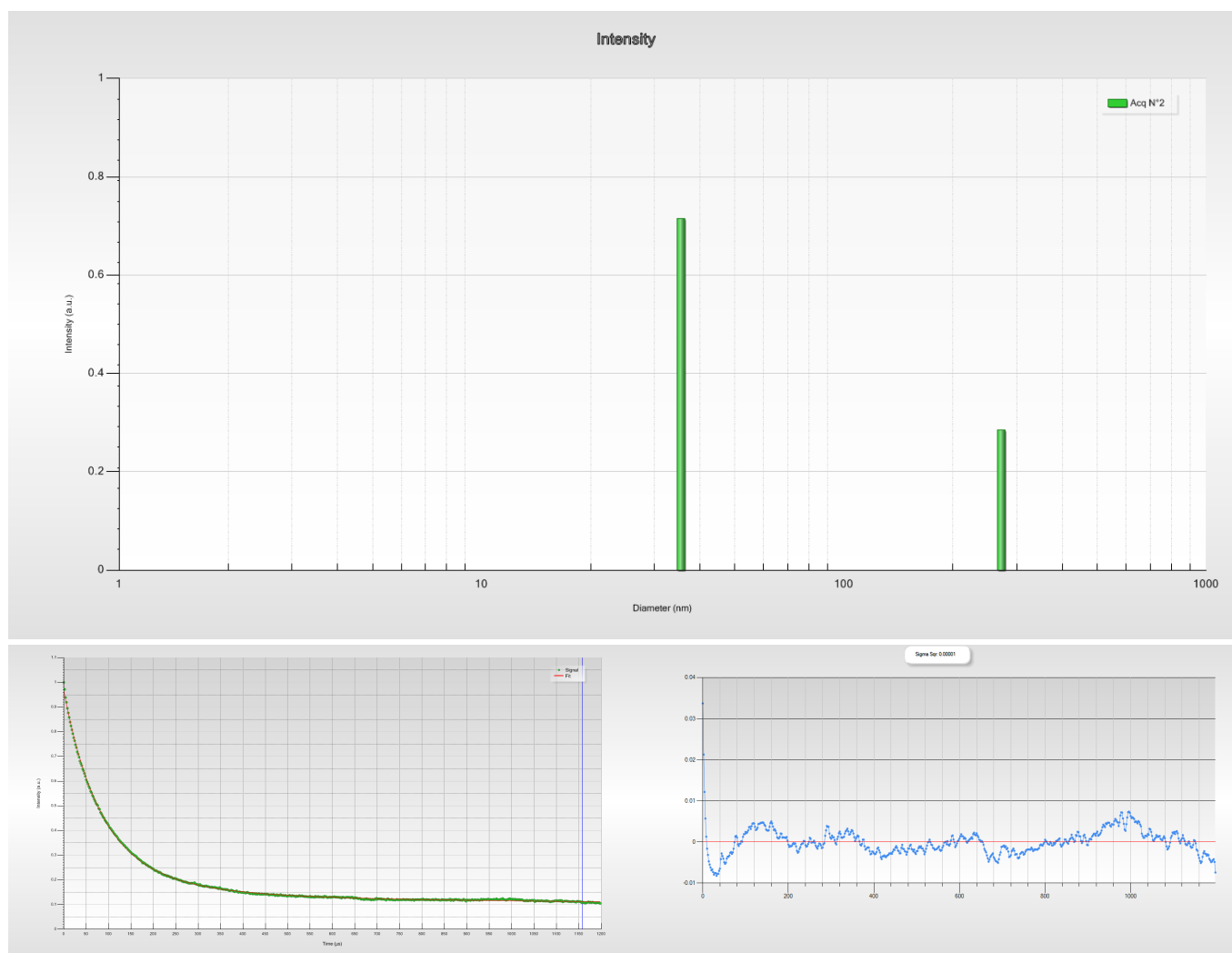
Dv 50%: 42.71 nm

Dv 90%: 64.75 nm

Std Dev: 35.18%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
49.54	0.84	5243.74	99.20315E-013



Dispersion statistics

Di 10%: 35.5 nm

Di 50%: 35.5 nm

Di 90%: 271.48 nm

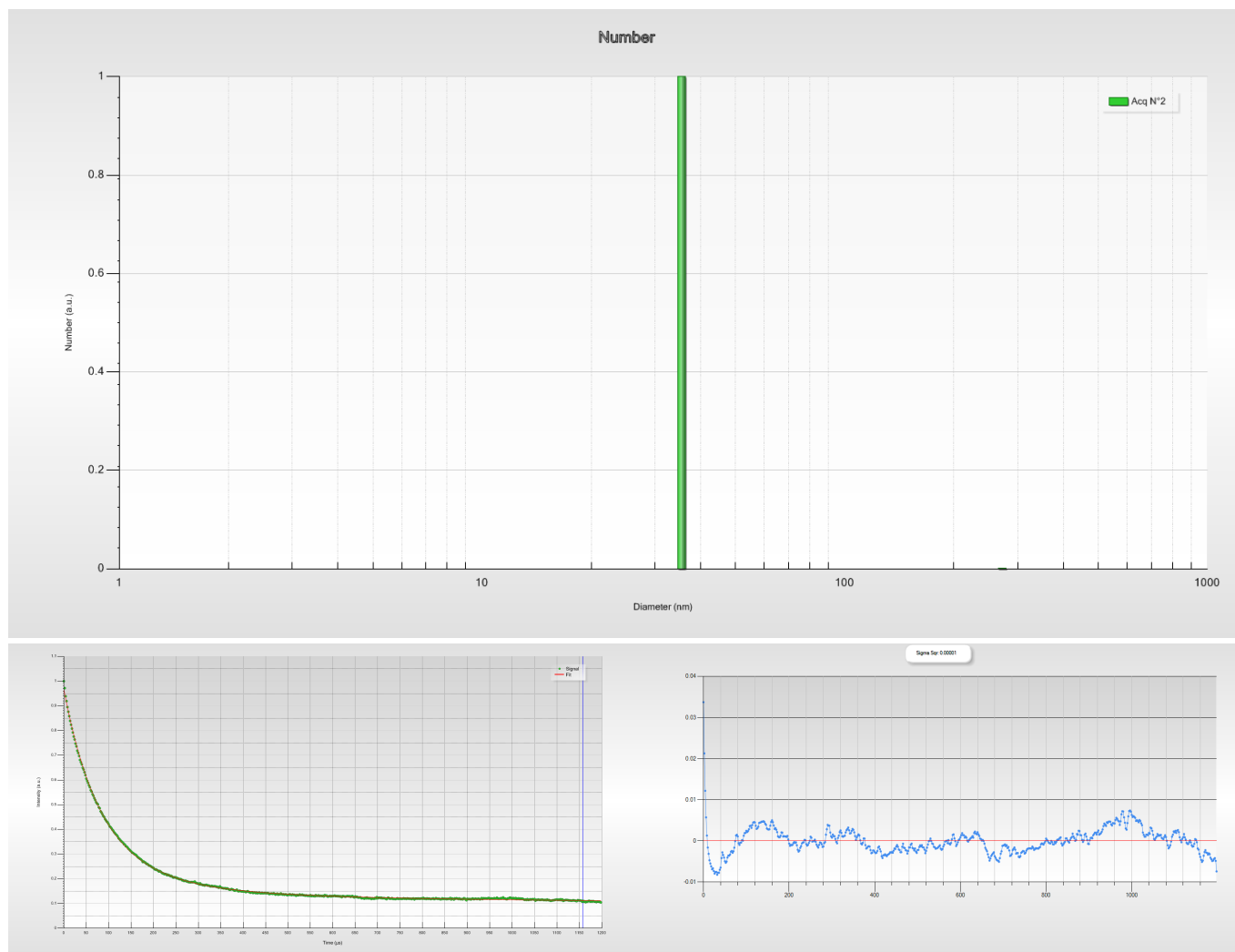
Mean Intensity: 102.89 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
35.44	0.66	7329.95	13.86709E-012
276.28	0.27	940.29	17.78882E-013

Dispersion datas

Size (nm)	Intensity	Size (nm)	Intensity
35.5	0.71	271.48	0.29



Dispersion statistics

Dn 10%: 35.5 nm
Mean Number: 35.5 nm

Dn 50%: 35.5 nm

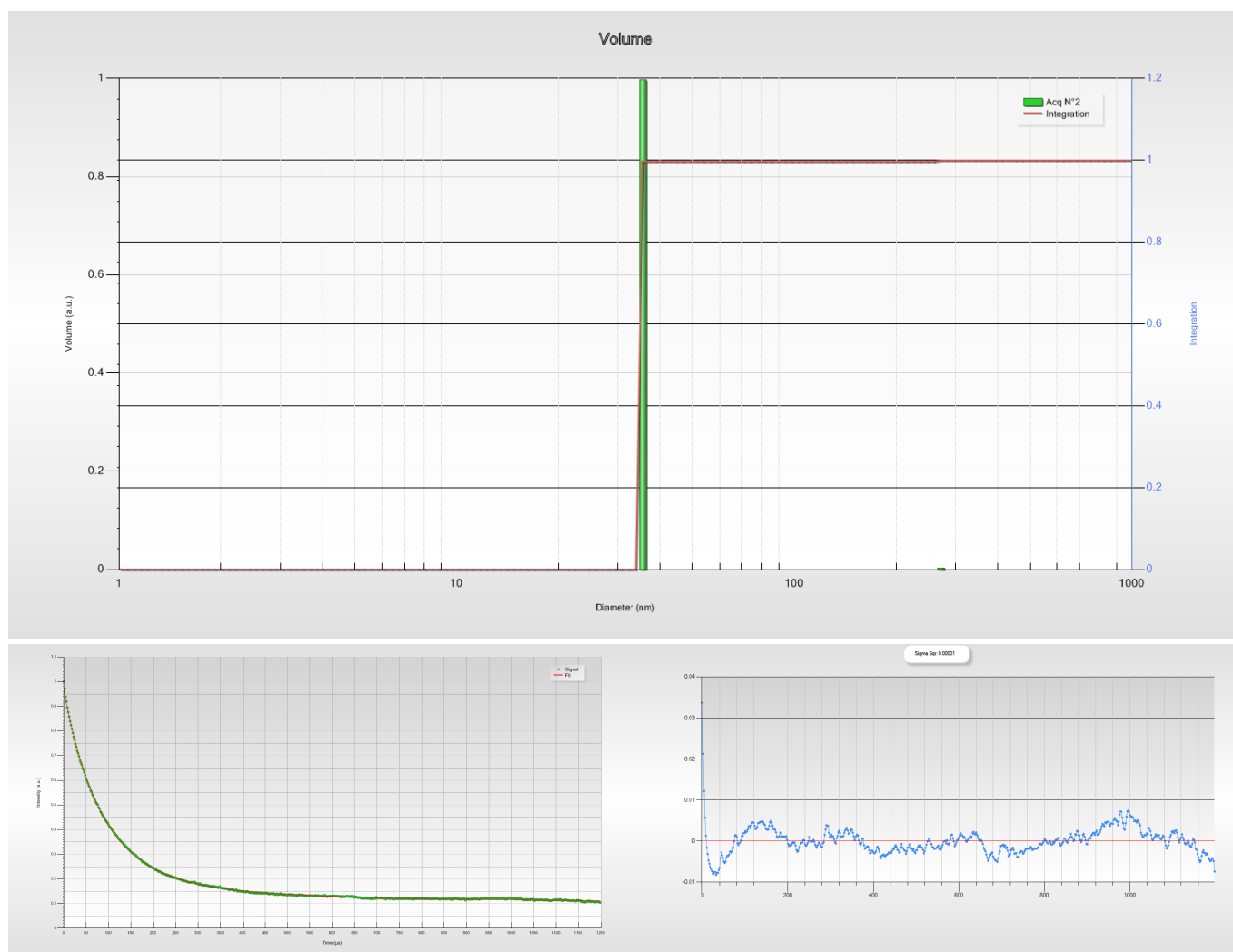
Dn 90%: 35.5 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m²/s)
35.44	0.66	7329.95	13.86709E-012
276.28	0.27	940.29	17.78882E-013

Dispersion datas

Size (nm)	Number
35.5	1



Dispersion statistics

Dv 10%: 35.5 nm
Mean Volume: 36.13 nm

Dv 50%: 35.5 nm

Dv 90%: 35.5 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
35.44	0.66	7329.95	13.86709E-012
276.28	0.27	940.29	17.78882E-013

Dispersion datas

Size (nm)	Volume
35.5	1

**Distribution statistics**

Di 10%: 38.94 nm
Mean Intensity: 64.33 nm
PDI : 0.49439

Di 50%: 61.83 nm

Di 90%: 93.73 nm

Std Dev: 35.16%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m²/s)
50.94	0.84	5099.59	96.47594E-013

**Distribution statistics**

Dn 10%: 19.46 nm
Mean Number: 32.1 nm
PDI : 0.49439

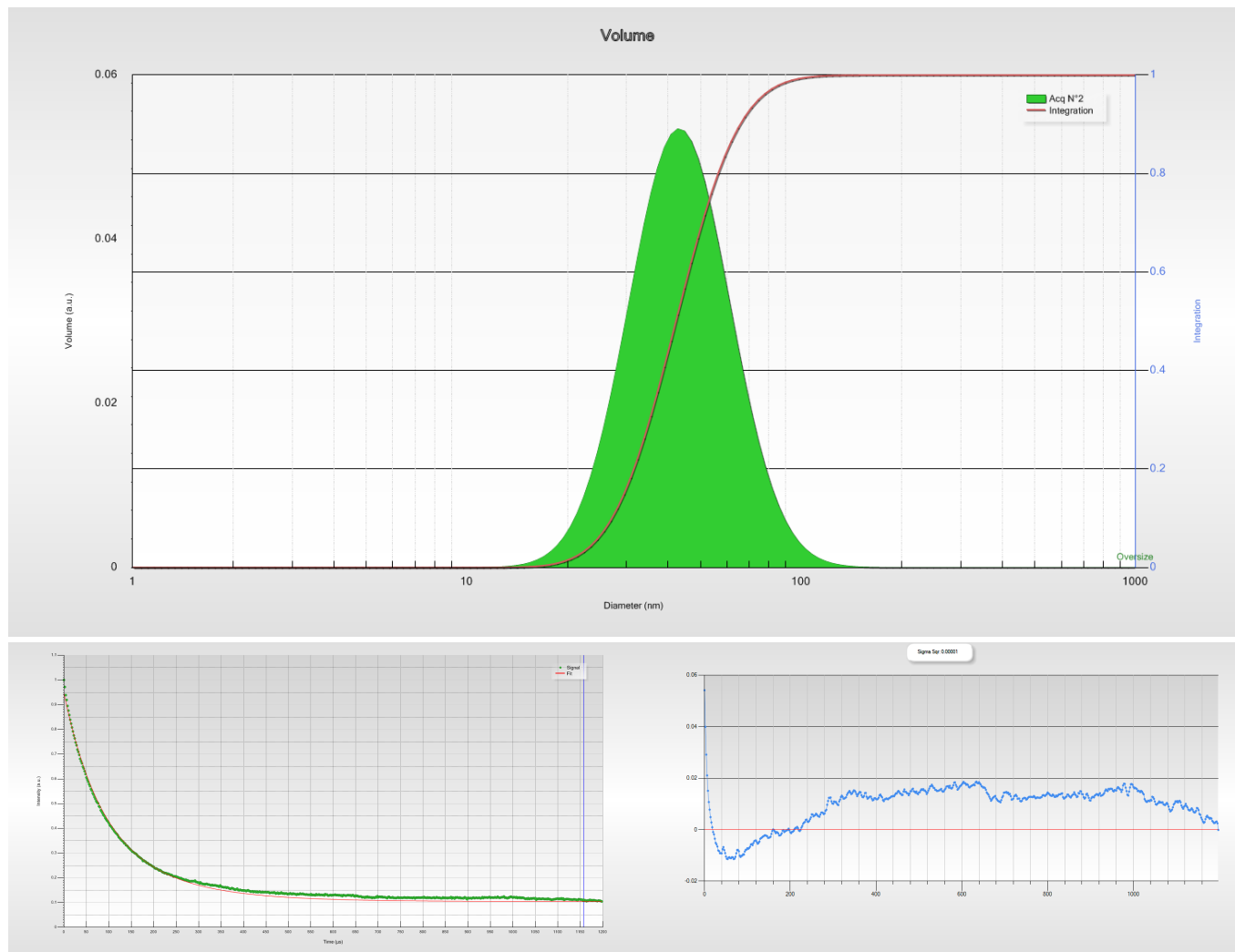
Dn 50%: 30.9 nm

Dn 90%: 46.85 nm

Std Dev: 35.16%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m²/s)
50.94	0.84	5099.59	96.47594E-013



Distribution statistics

Dv 10%: 28.17 nm
Mean Volume: 45.84 nm
PDI : 0.49439

Dv 50%: 42.71 nm

Dv 90%: 67.81 nm

Std Dev: 35.16%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
50.94	0.84	5099.59	96.47594E-013



Dispersion statistics

Di 10%: 28.17 nm

Di 50%: 28.17 nm

Di 90%: 135.68 nm

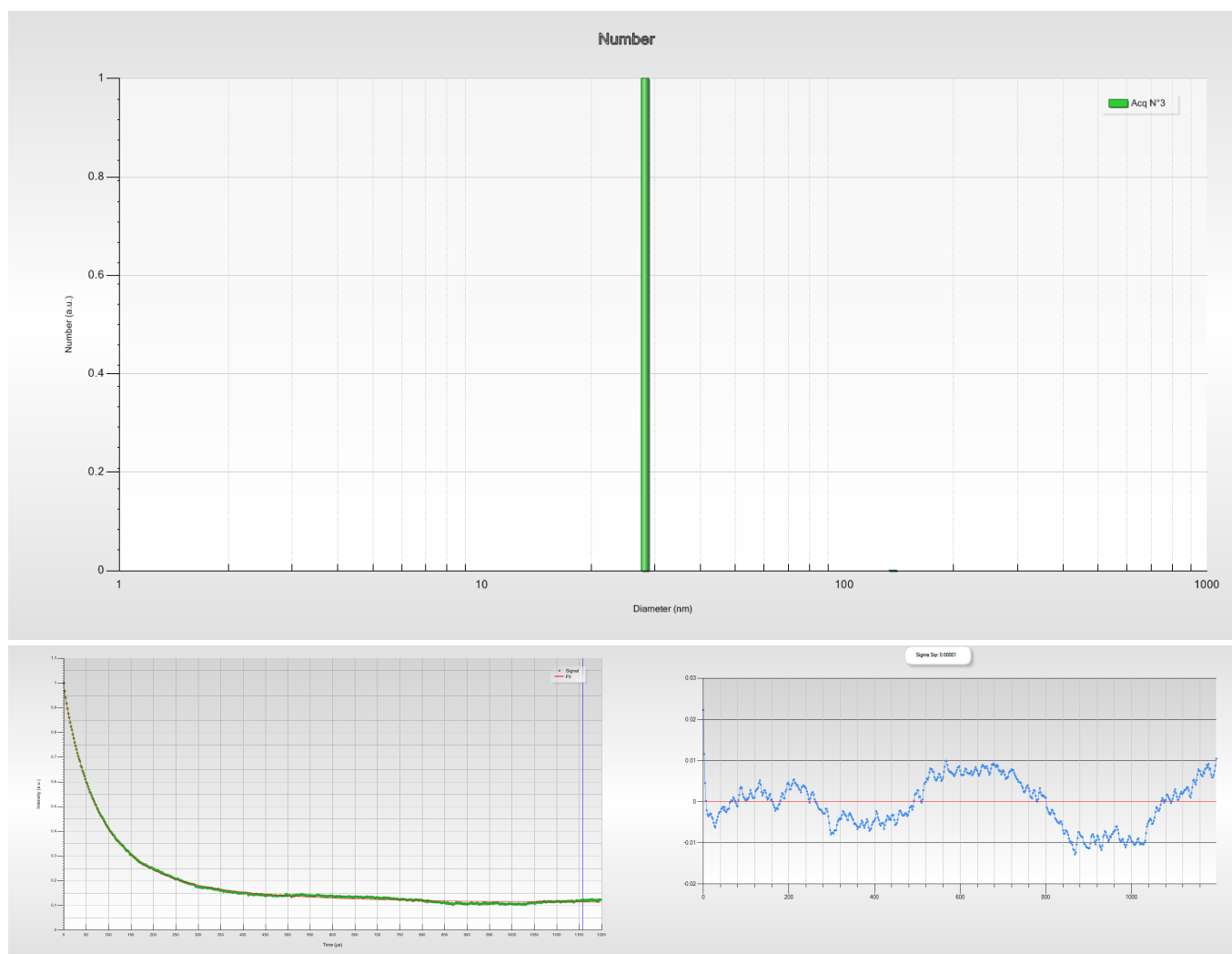
Mean Intensity: 76.41 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
27.84	0.51	9329.79	17.65046E-012
135.17	0.42	1921.91	36.3594E-013

Dispersion datas

Size (nm)	Intensity	Size (nm)	Intensity
28.17	0.55	135.68	0.45



Dispersion statistics

Dn 10%: 28.17 nm
Mean Number: 28.18 nm

Dn 50%: 28.17 nm

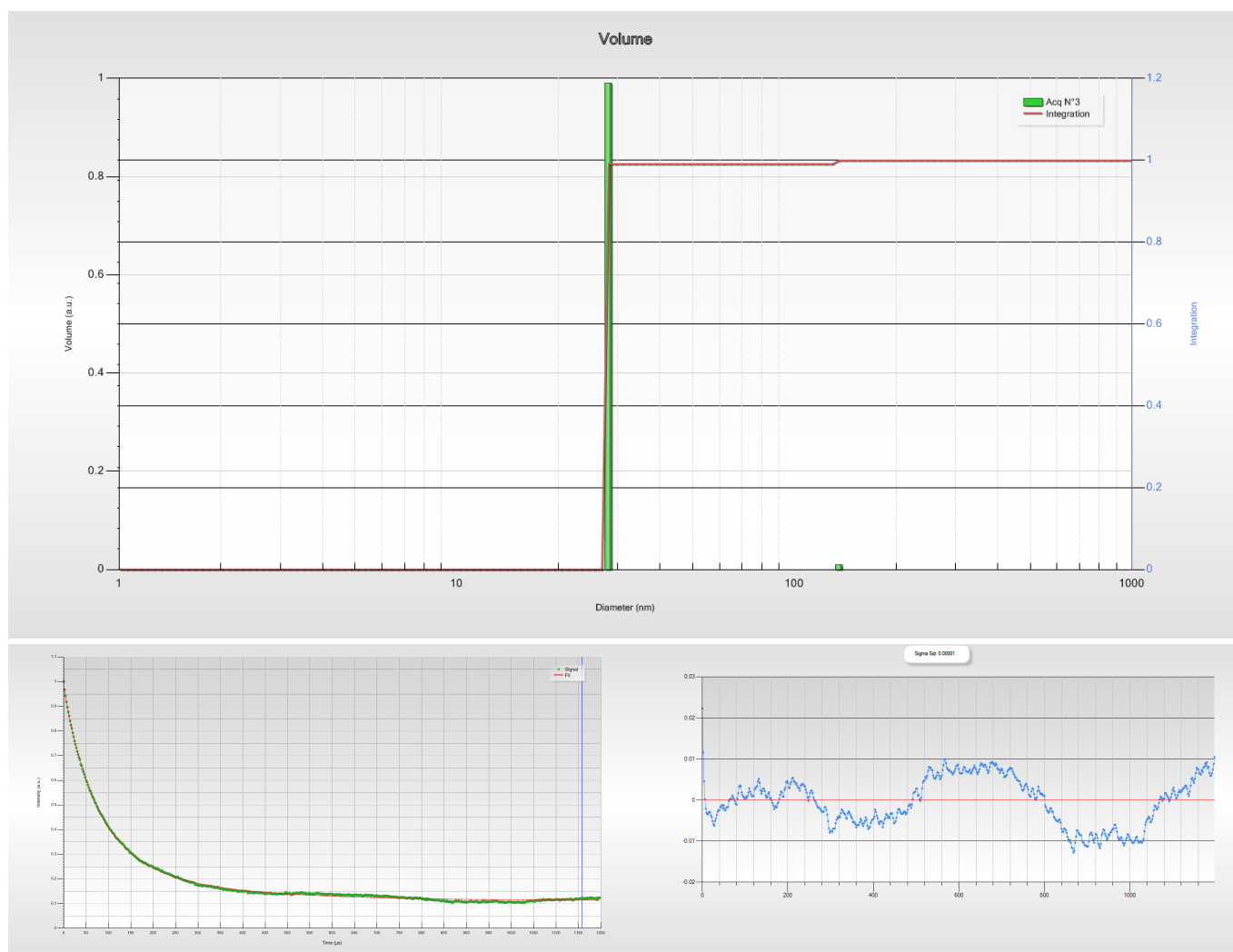
Dn 90%: 28.17 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
27.84	0.51	9329.79	17.65046E-012
135.17	0.42	1921.91	36.3594E-013

Dispersion datas

Size (nm)	Number
28.17	1



Dispersion statistics

Dv 10%: 28.17 nm
Mean Volume: 29.13 nm

Dv 50%: 28.17 nm

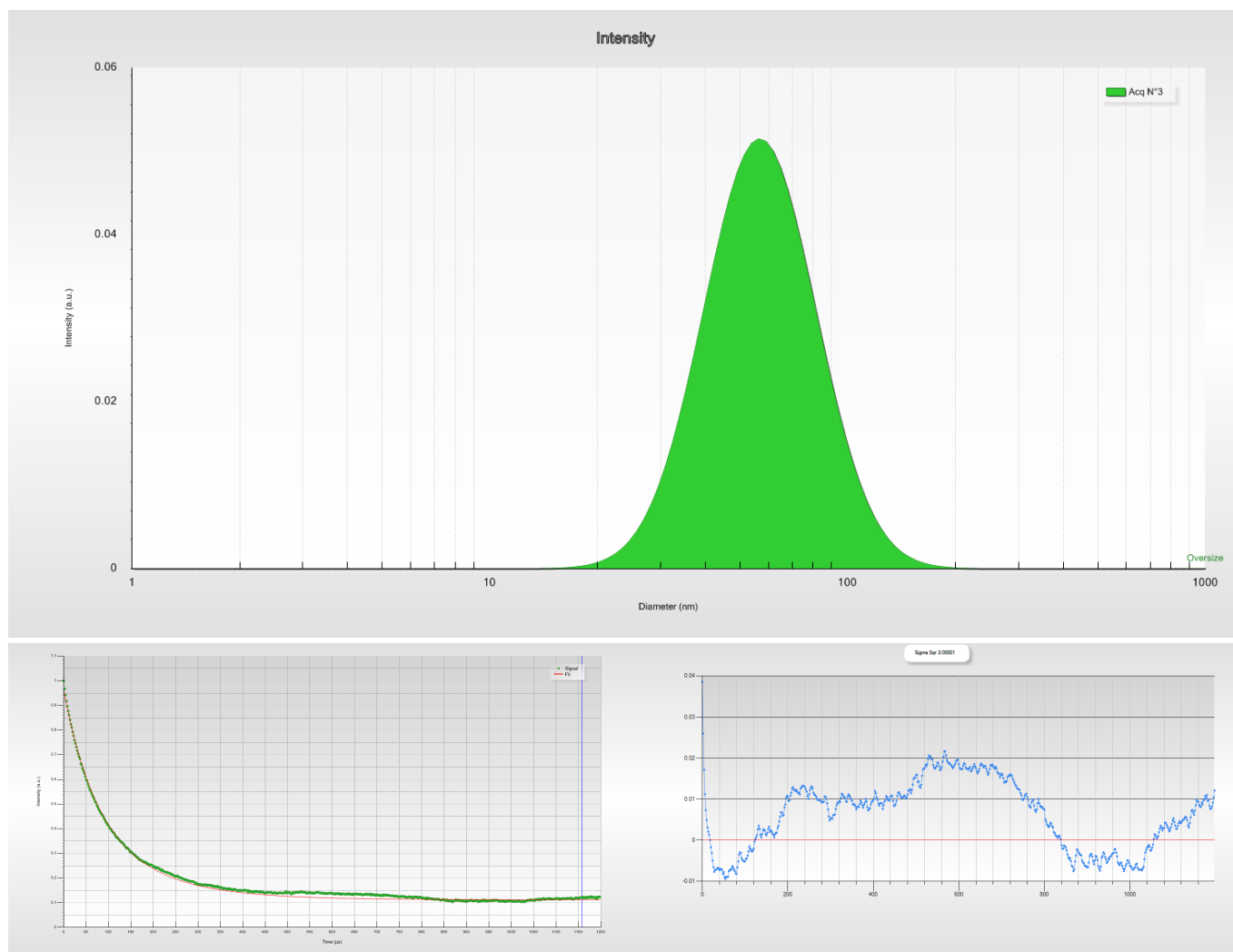
Dv 90%: 28.17 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
27.84	0.51	9329.79	17.65046E-012
135.17	0.42	1921.91	36.3594E-013

Dispersion datas

Size (nm)	Volume	Size (nm)	Volume
28.17	0.99	135.68	0.01

**Distribution statistics**

Di 10%: 35.5 nm
Mean Intensity: 60.47 nm
PDI : 0.54761

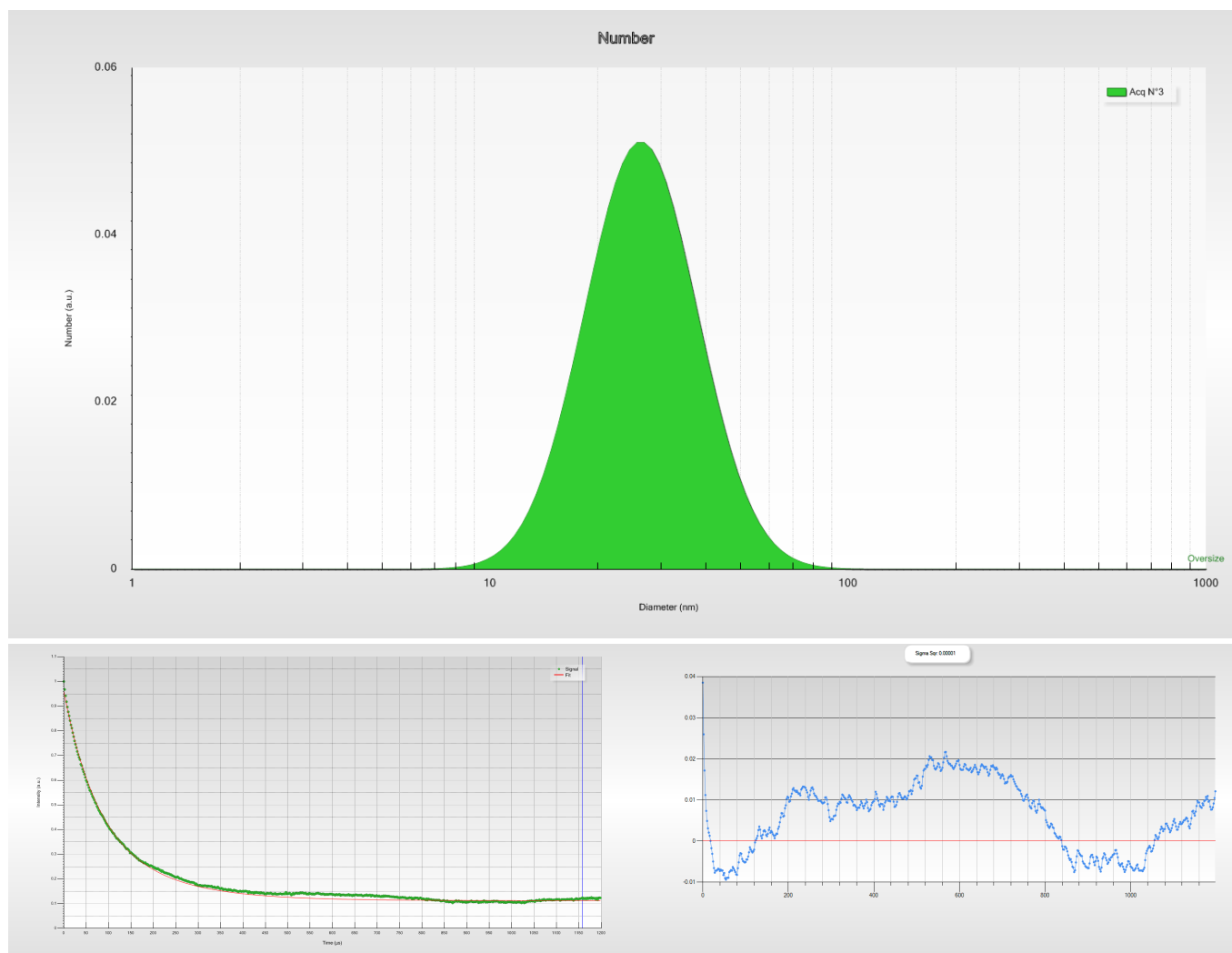
Di 50%: 56.36 nm

Di 90%: 89.5 nm

Std Dev : 37%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m²/s)
46.77	0.85	5553.98	10.50724E-012

**Distribution statistics**

Dn 10%: 16.94 nm
Mean Number: 28.1 nm
PDI : 0.54761

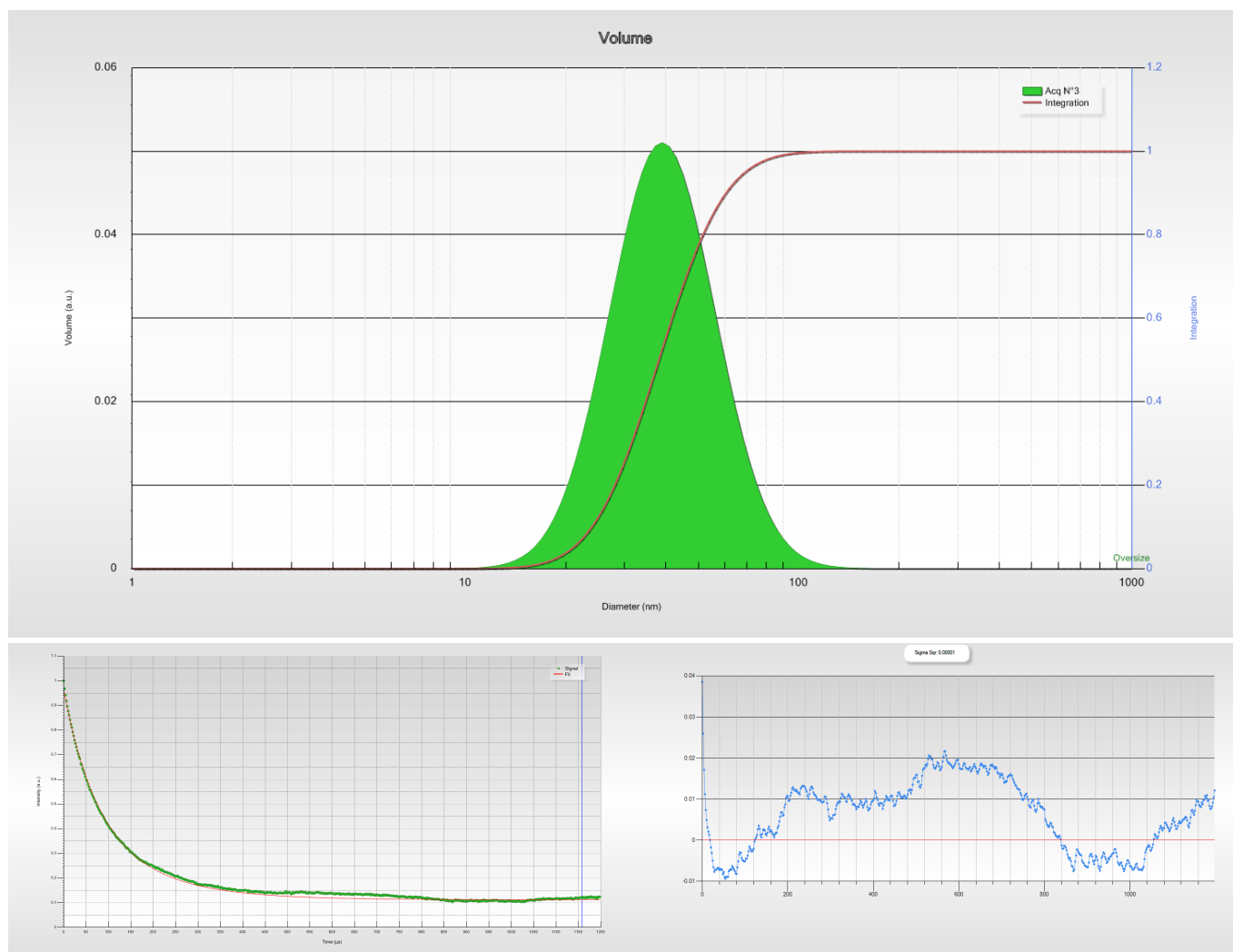
Dn 50%: 26.9 nm

Dn 90%: 42.71 nm

Std Dev : 37%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m²/s)
46.77	0.85	5553.98	10.50724E-012



Distribution statistics

Dv 10%: 24.52 nm
Mean Volume: 41.58 nm
PDI : 0.54761

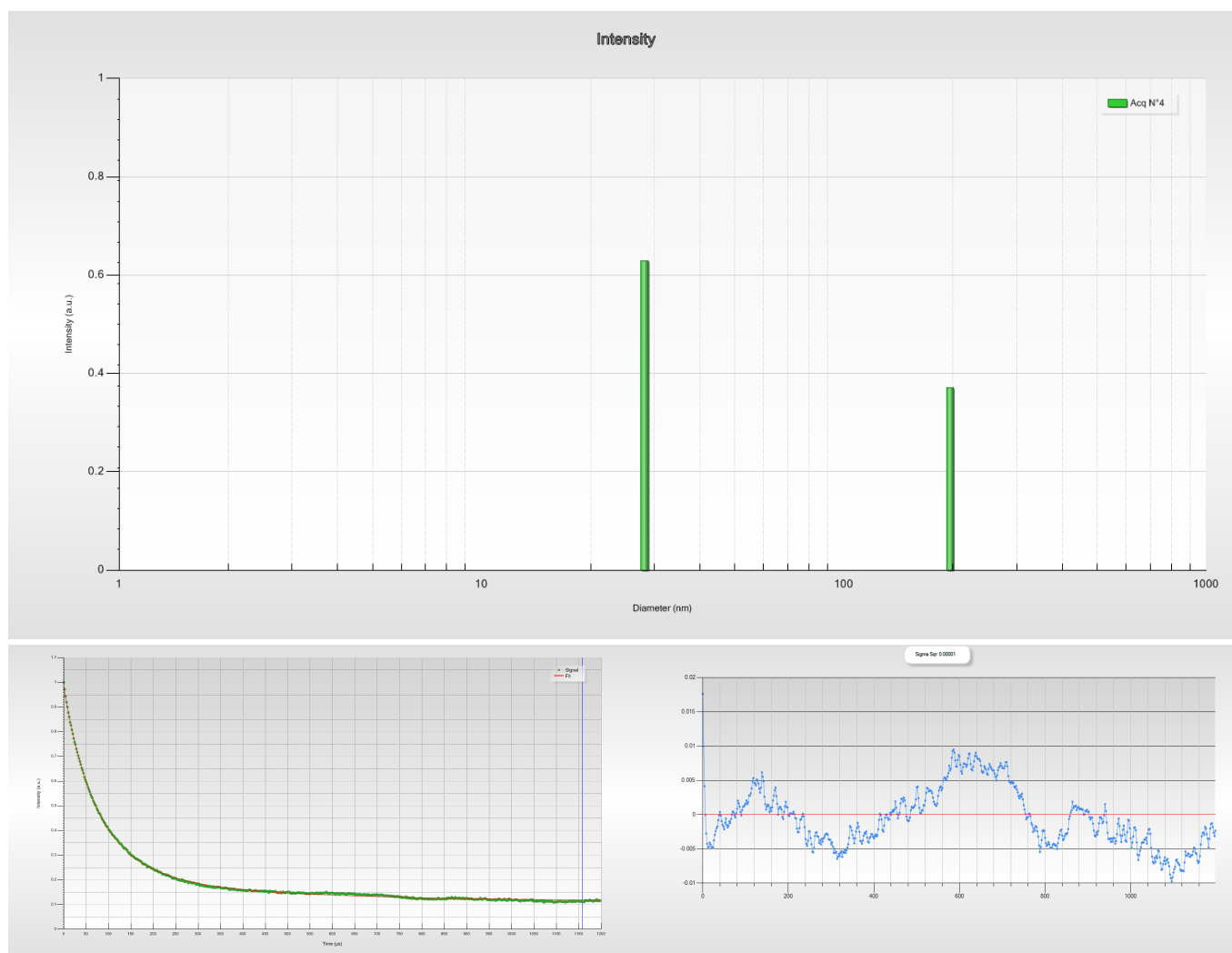
Dv 50%: 38.94 nm

Dv 90%: 61.83 nm

Std Dev : 37%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
46.77	0.85	5553.98	10.50724E-012



Dispersion statistics

Di 10%: 28.17 nm

Di 50%: 28.17 nm

Di 90%: 196.41 nm

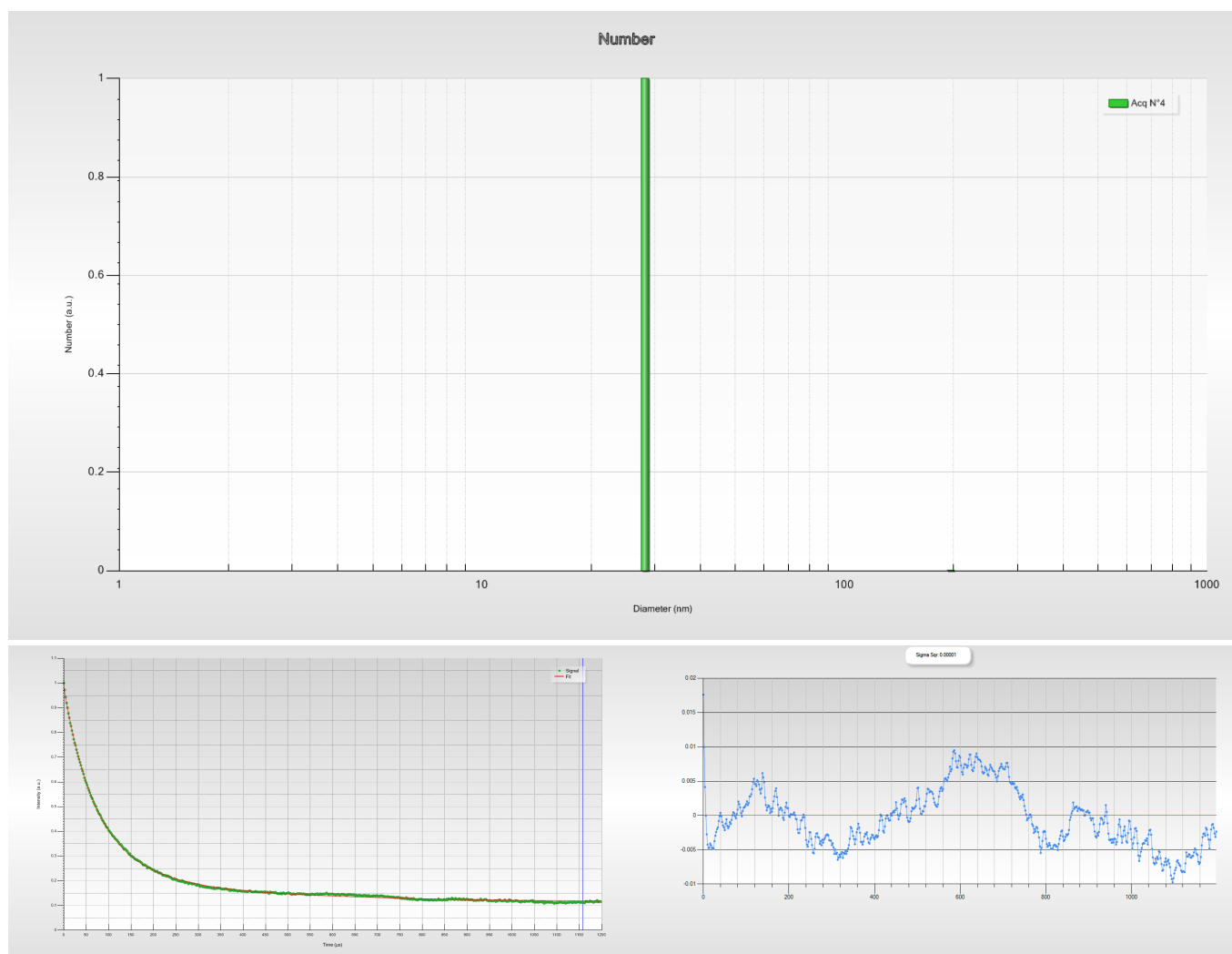
Mean Intensity: 90.61 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m²/s)
28.64	0.59	9069.7	17.1584E-012
192.73	0.35	1347.96	25.5012E-013

Dispersion datas

Size (nm)	Intensity	Size (nm)	Intensity
28.17	0.63	196.41	0.37



Dispersion statistics

Dn 10%: 28.17 nm
Mean Number: 28.17 nm

Dn 50%: 28.17 nm

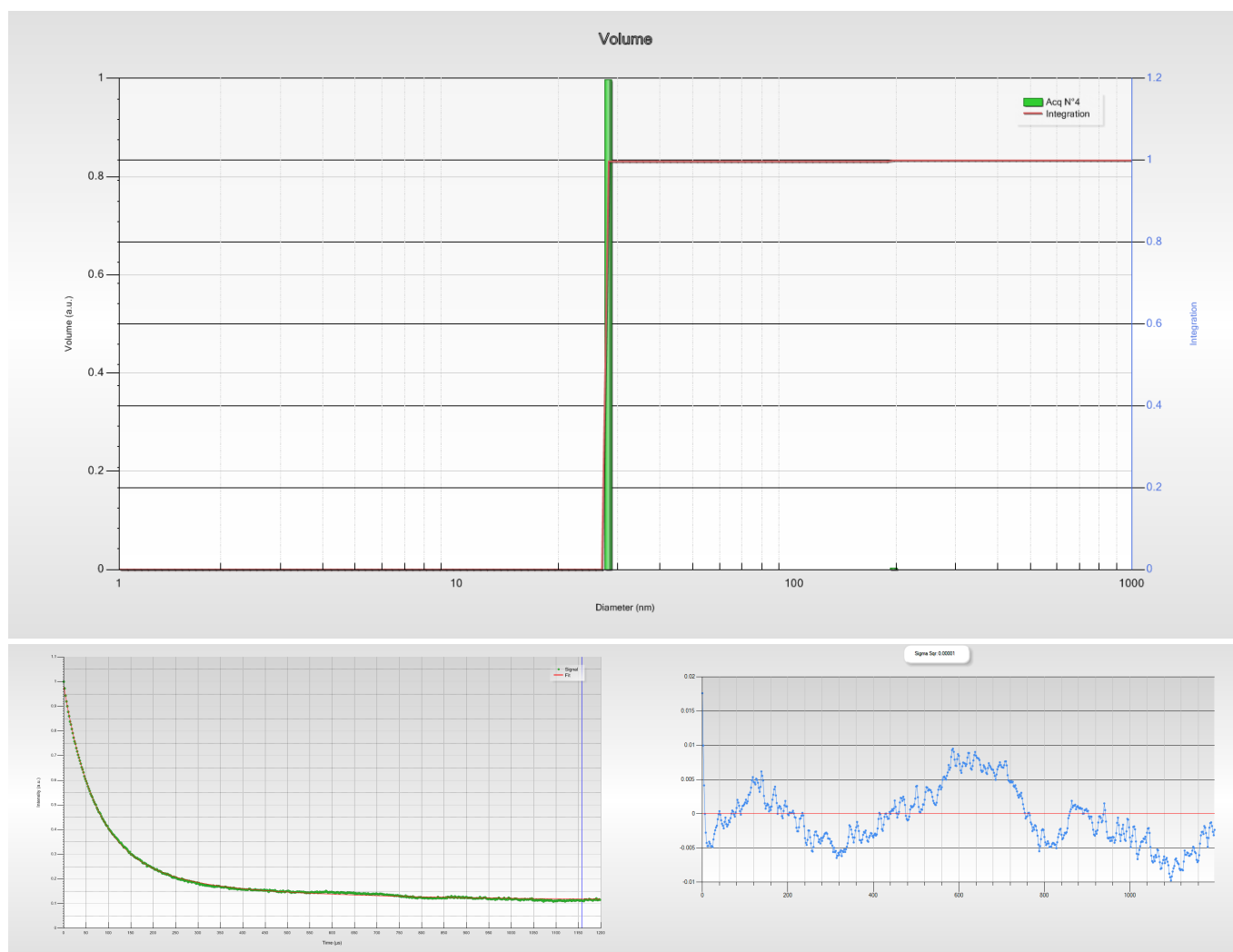
Dn 90%: 28.17 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m²/s)
28.64	0.59	9069.7	17.1584E-012
192.73	0.35	1347.96	25.5012E-013

Dispersion datas

Size (nm)	Number
28.17	1



Dispersion statistics

Dv 10%: 28.17 nm
Mean Volume: 28.65 nm

Dv 50%: 28.17 nm

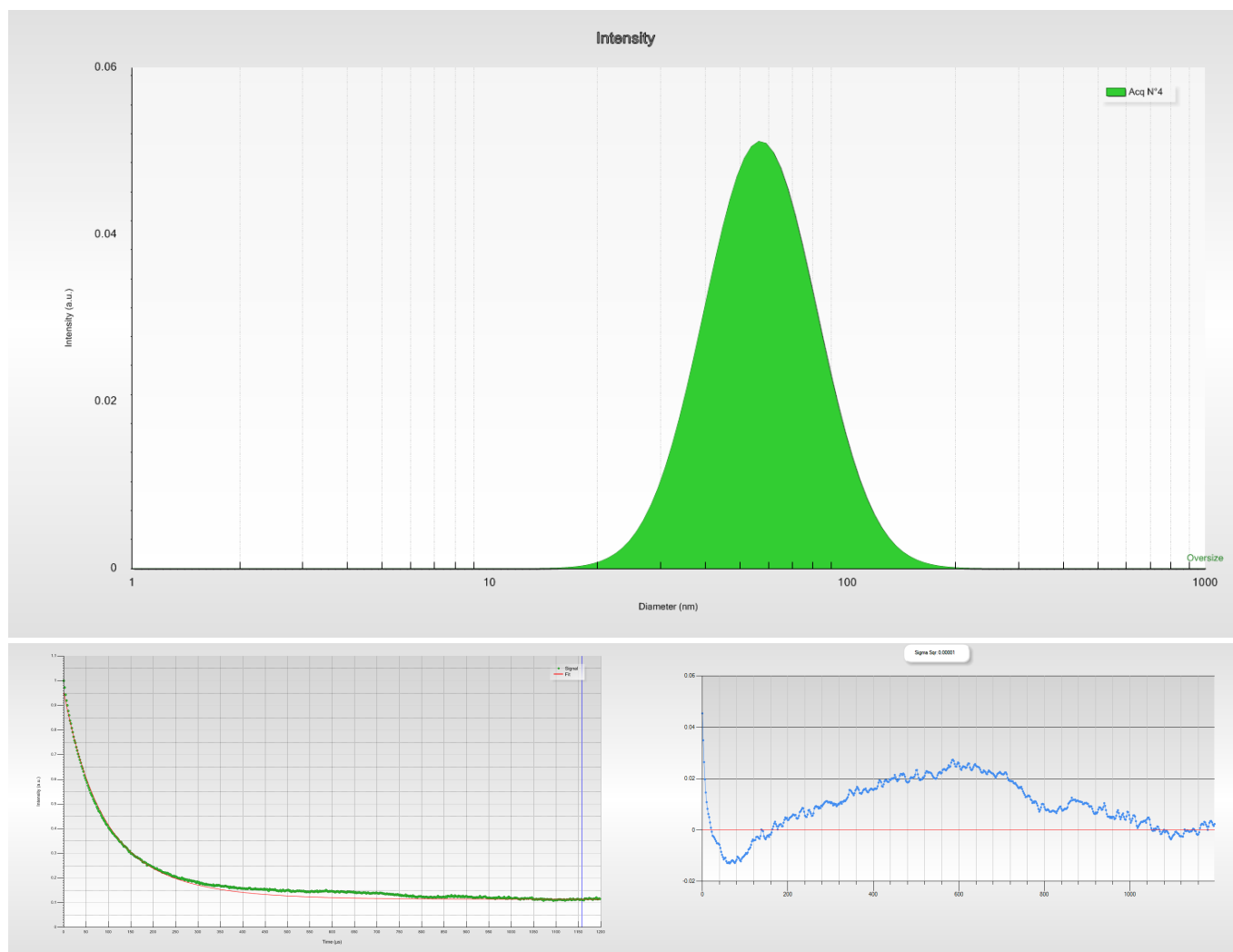
Dv 90%: 28.17 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m²/s)
28.64	0.59	9069.7	17.1584E-012
192.73	0.35	1347.96	25.5012E-013

Dispersion datas

Size (nm)	Volume
28.17	1

**Distribution statistics**

Di 10%: 35.5 nm
Mean Intensity: 60.78 nm
PDI : 0.55451

Di 50%: 56.36 nm

Di 90%: 89.5 nm

Std Dev: 37.23%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m²/s)
46.87	0.84	5542.16	10.48486E-012

**Distribution statistics**

Dn 10%: 16.17 nm
Mean Number: 27.99 nm
PDI : 0.55451

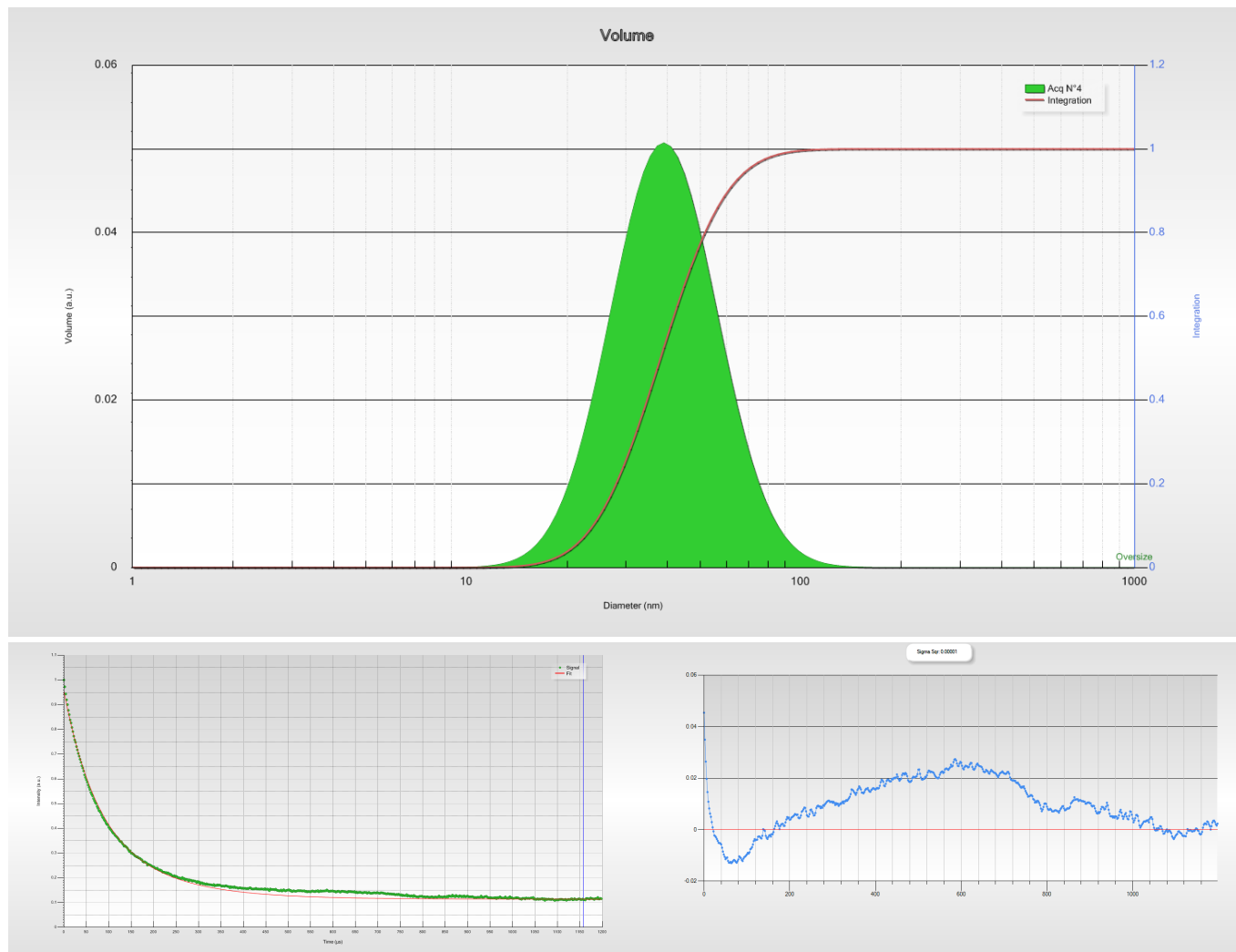
Dn 50%: 25.68 nm

Dn 90%: 40.78 nm

Std Dev: 37.23%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m²/s)
46.87	0.84	5542.16	10.48486E-012



Distribution statistics

Dv 10%: 24.52 nm
Mean Volume: 41.61 nm
PDI : 0.55451

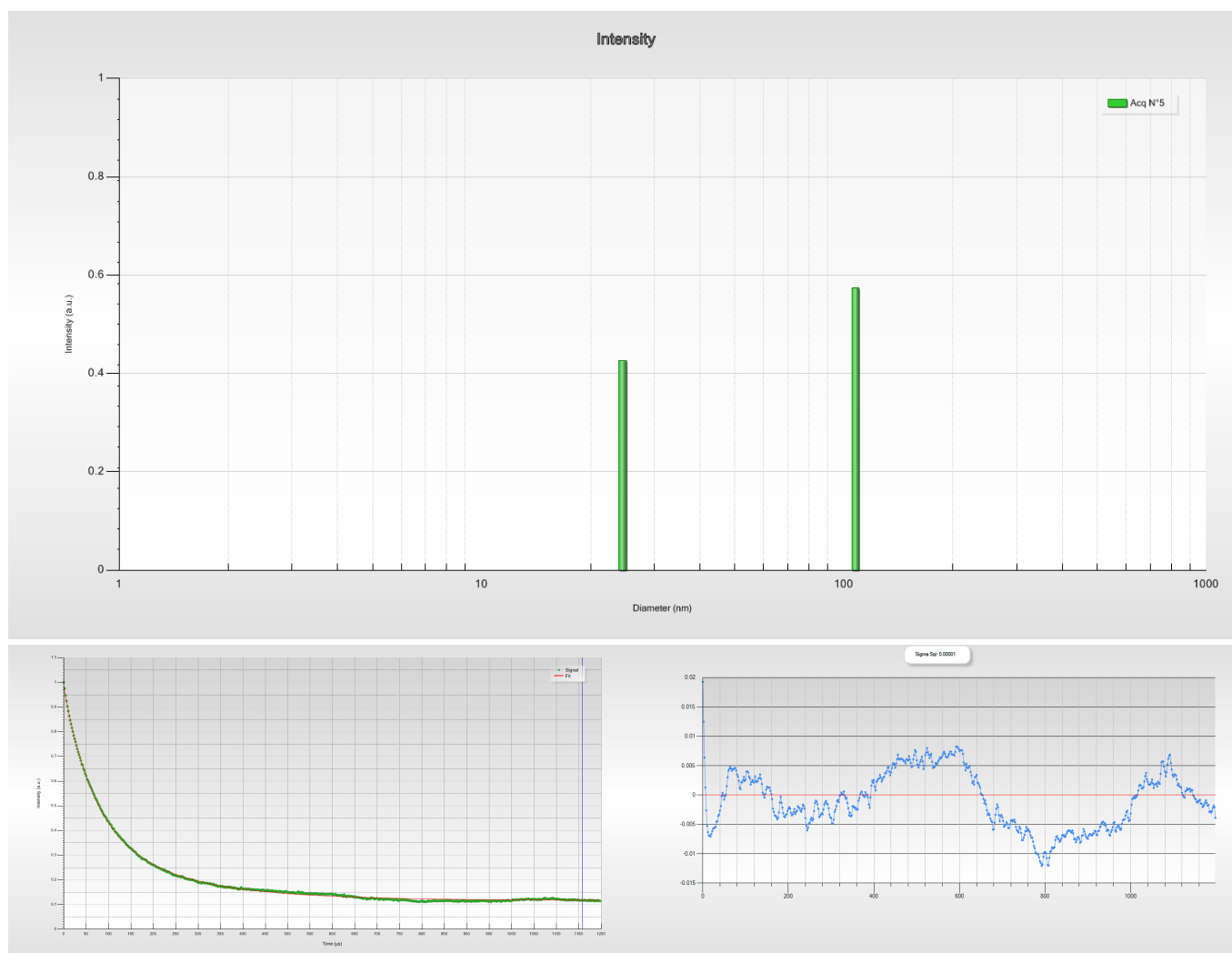
Dv 50%: 38.94 nm

Dv 90%: 61.83 nm

Std Dev: 37.23%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
46.87	0.84	5542.16	10.48486E-012



Dispersion statistics

Di 10%: 24.52 nm

Di 50%: 107.68 nm

Di 90%: 107.68 nm

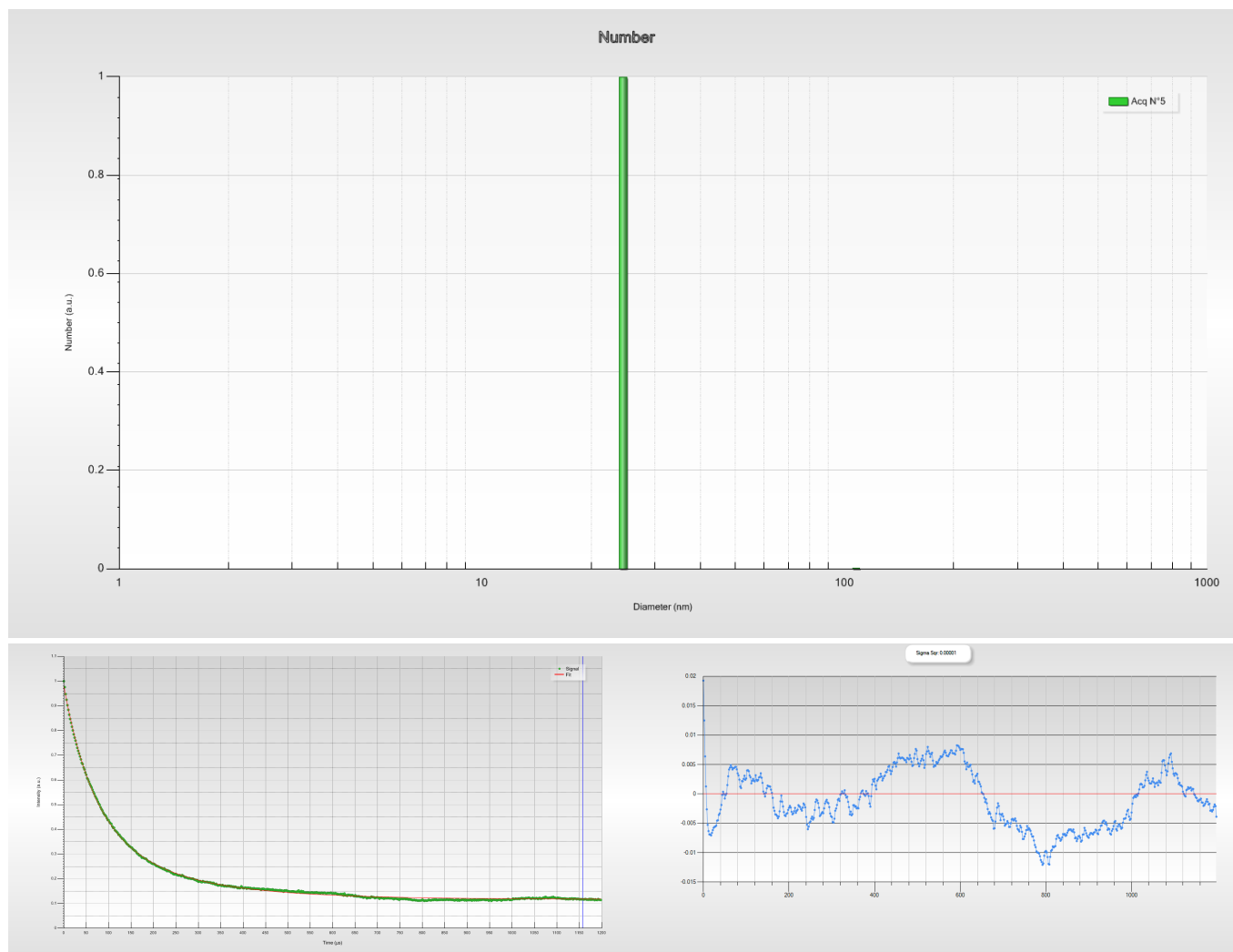
Mean Intensity: 72.21 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
25.05	0.4	10370.6	19.6195E-012
109.53	0.53	2371.8	44.87068E-013

Dispersion datas

Size (nm)	Intensity	Size (nm)	Intensity
24.52	0.43	107.68	0.57



Dispersion statistics

Dn 10%: 24.52 nm
Mean Number: 24.54 nm

Dn 50%: 24.52 nm

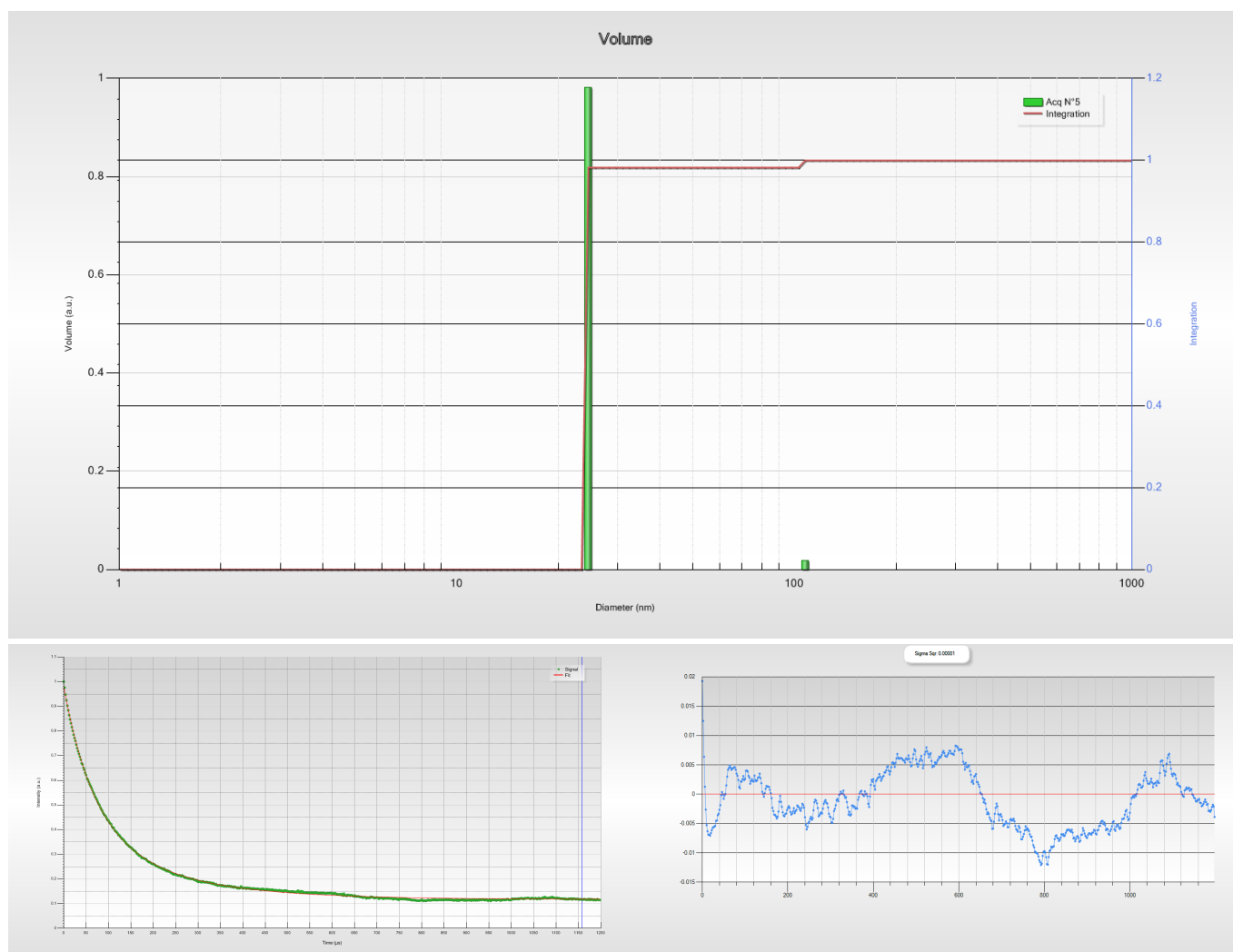
Dn 90%: 24.52 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
25.05	0.4	10370.6	19.6195E-012
109.53	0.53	2371.8	44.87068E-013

Dispersion datas

Size (nm)	Number
24.52	1



Dispersion statistics

Dv 10%: 24.52 nm
Mean Volume: 26 nm

Dv 50%: 24.52 nm

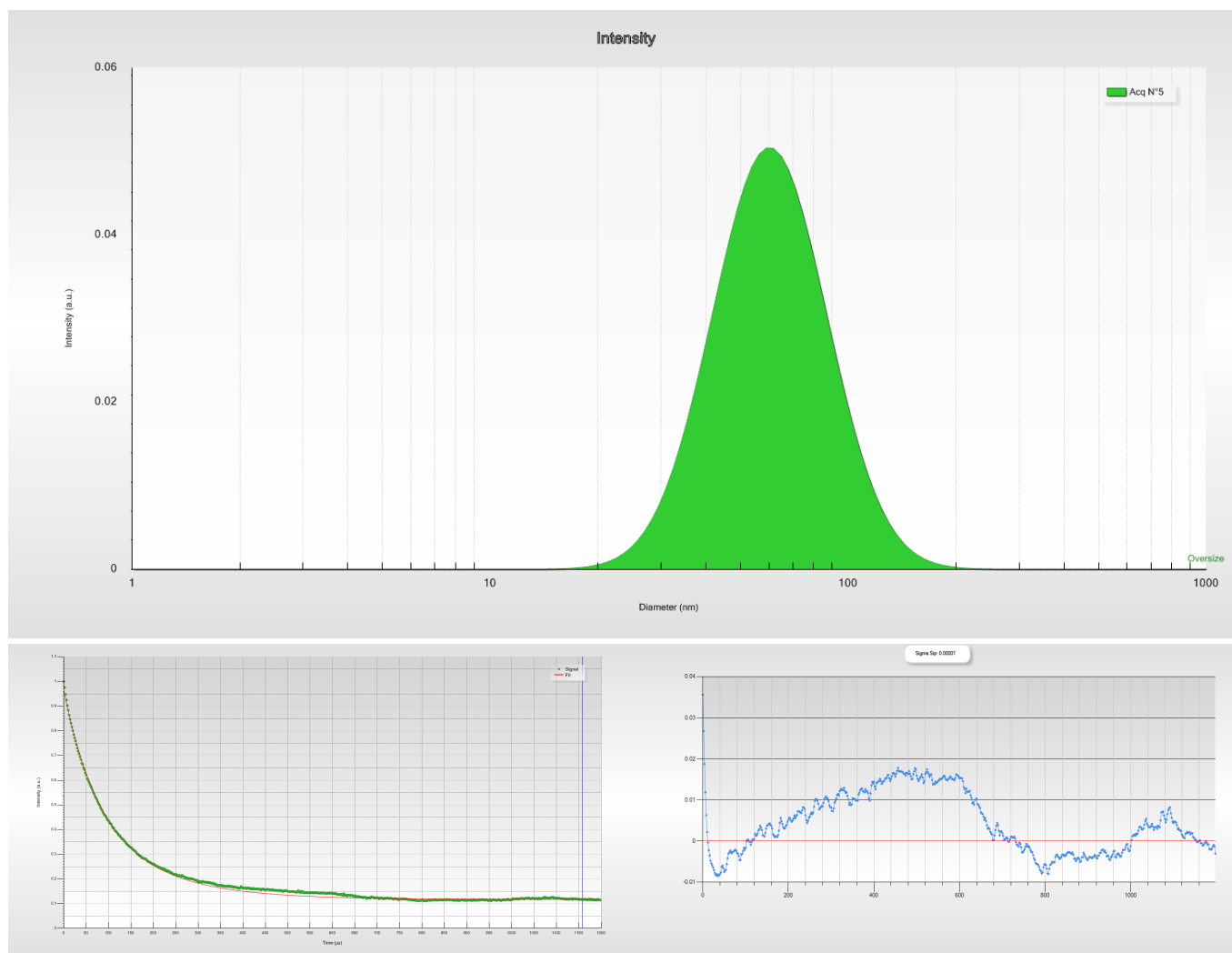
Dv 90%: 24.52 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
25.05	0.4	10370.6	19.6195E-012
109.53	0.53	2371.8	44.87068E-013

Dispersion datas

Size (nm)	Volume	Size (nm)	Volume
24.52	0.98	107.68	0.02

**Distribution statistics**

Di 10%: 37.18 nm
Mean Intensity: 64.32 nm
PDI : 0.57157

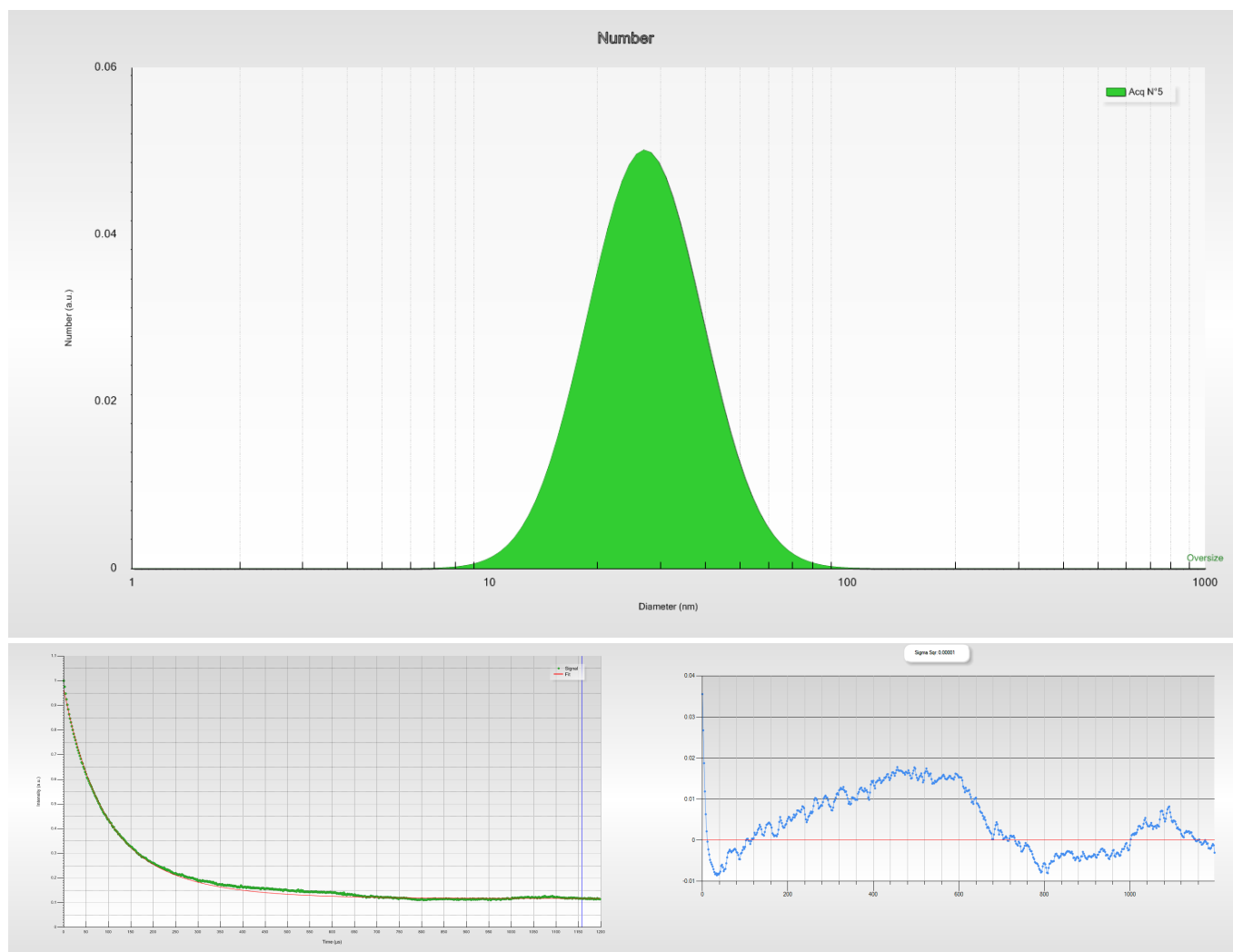
Di 50%: 59.03 nm

Di 90%: 98.17 nm

Std Dev: 37.8%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m²/s)
49.23	0.85	5276.53	99.82347E-013



Distribution statistics

Dn 10%: 16.94 nm
Mean Number: 28.97 nm
PDI : 0.57157

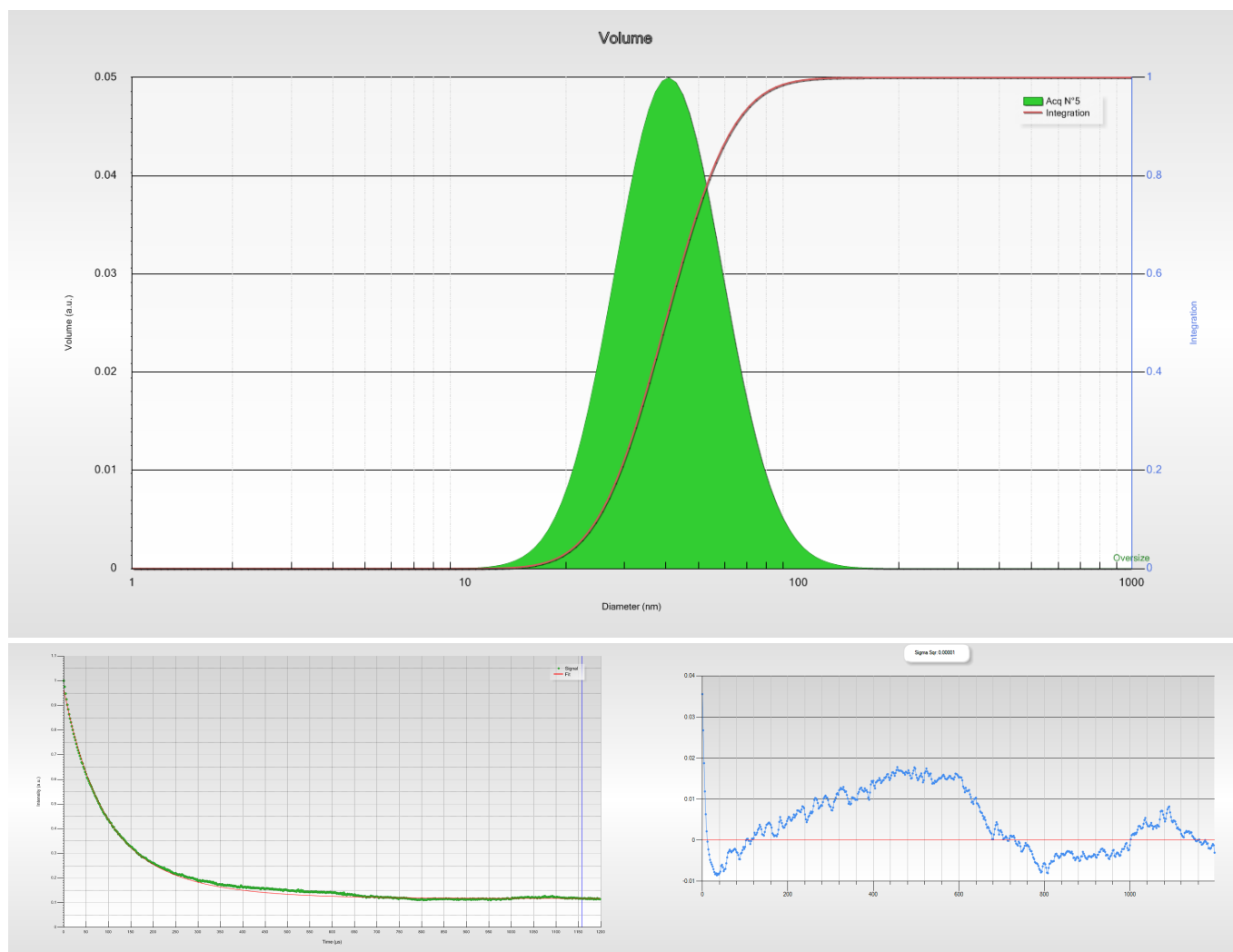
Dn 50%: 26.9 nm

Dn 90%: 42.71 nm

Std Dev: 37.8%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
49.23	0.85	5276.53	99.82347E-013



Distribution statistics

Dv 10%: 25.68 nm
Mean Volume: 43.58 nm
PDI : 0.57157

Dv 50%: 40.78 nm

Dv 90%: 64.75 nm

Std Dev: 37.8%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
49.23	0.85	5276.53	99.82347E-013