

Sample

Name : GNP_11.4.16_0.8_5k_2
Mesured On : 11.04.2016 17:45
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	: 39.6 %	Wavelength	: 657 nm
DTC Position	: UP		

Liquid Medium

Refractive index	: 1.331	Viscosity	: 0.888 cP
-------------------------	---------	------------------	------------

Particles

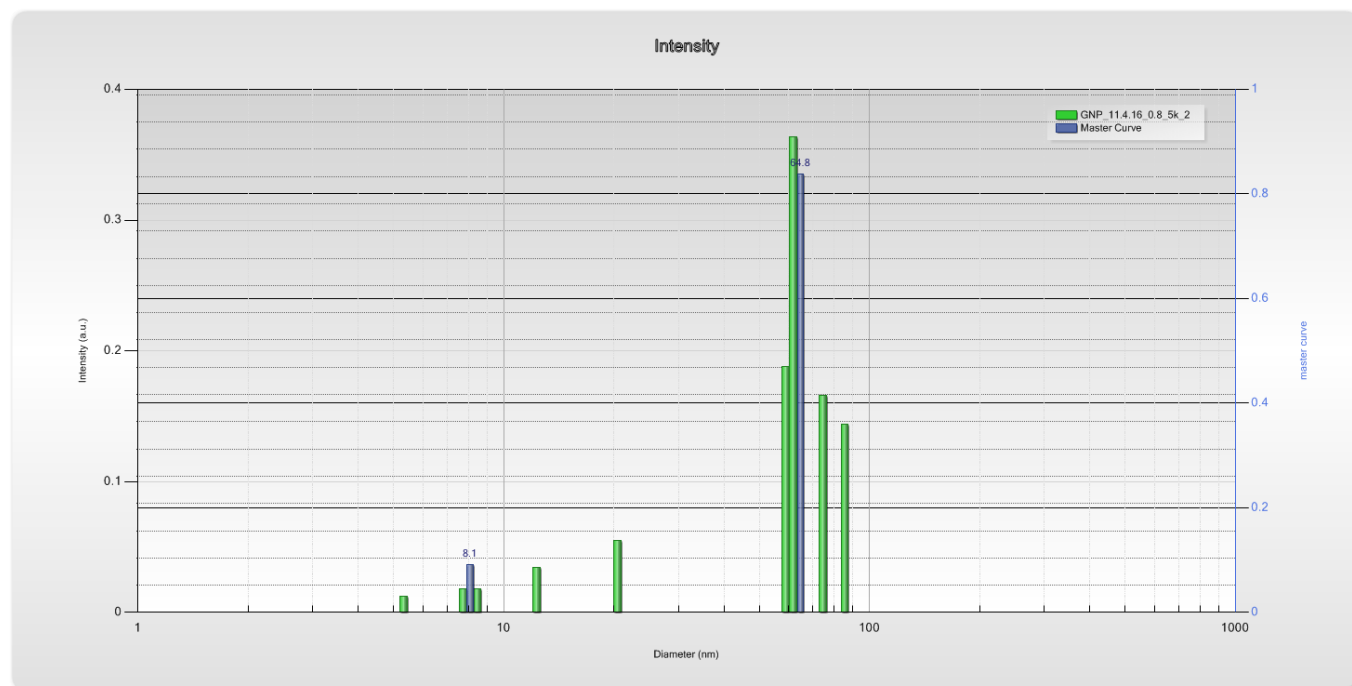
Real part	: 1.56	Imaginary part	: 0.01
------------------	--------	-----------------------	--------

Algorithm

Pade Laplace	Cumulants
--------------	-----------

Measurement

Average count rate : 2564 kcps **Duration** : 00:05:17
Number of rejected : 0 **Number of modified** : 0



Dispersion statistics

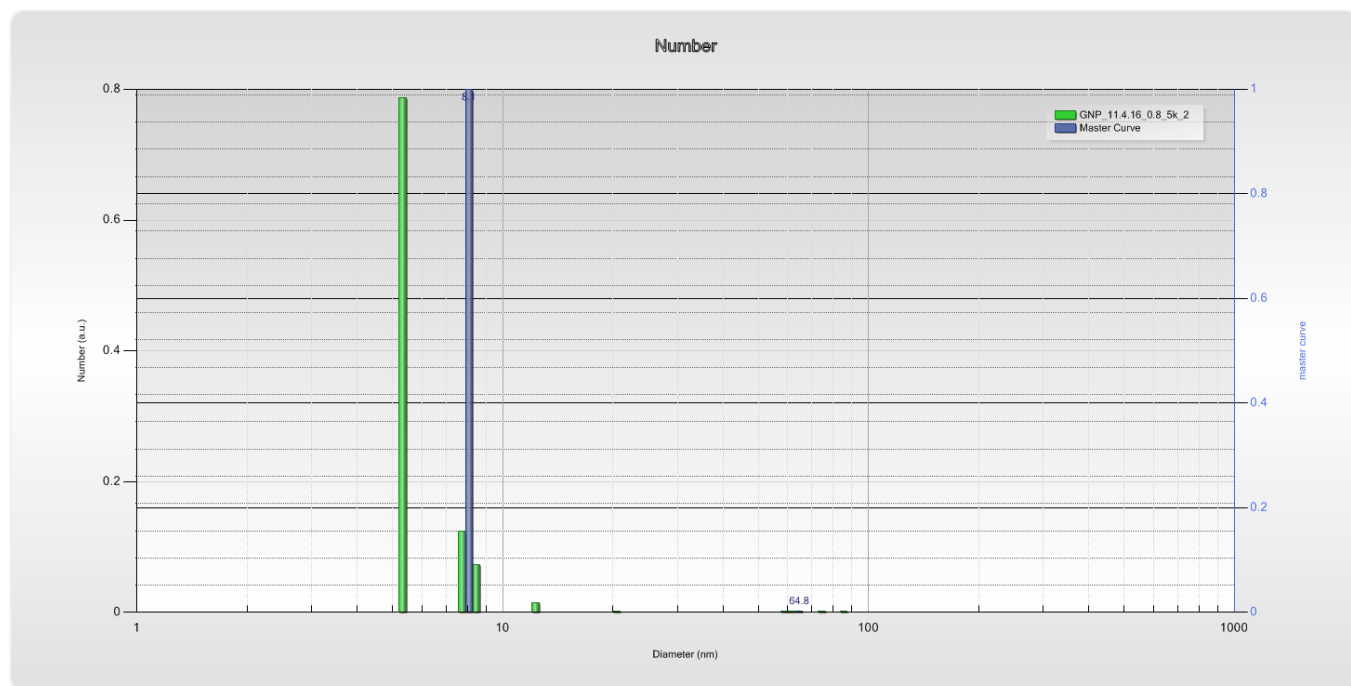
Di 10%: 20.38 nm

Di 50%: 61.83 nm

Di 90%: 85.45 nm

Dispersion datas

Size (nm)	Intensity	Size (nm)	Intensity	Size (nm)	Intensity	Size (nm)	Intensity
5.33	0.01	12.26	0.03	61.83	0.36		
7.72	0.02	20.38	0.05	74.39	0.17		
8.47	0.02	59.03	0.19	85.45	0.14		



Dispersion statistics

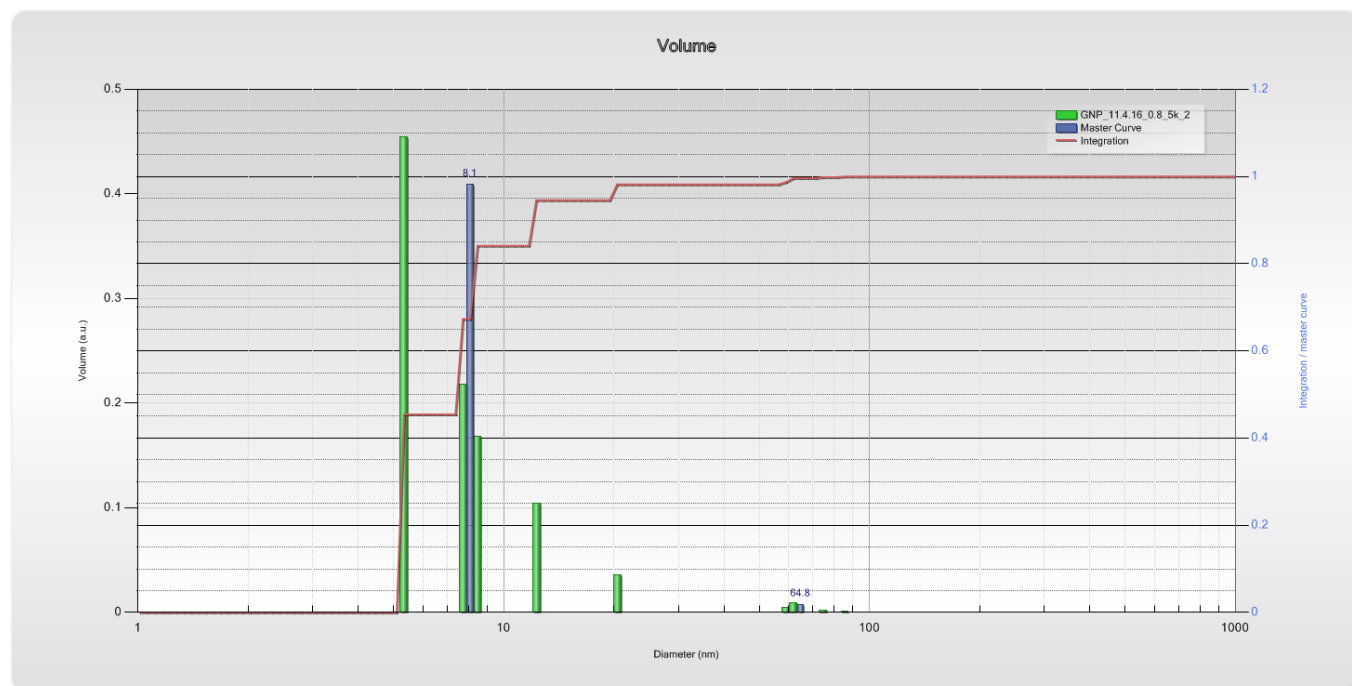
Dn 10%: 5.33 nm

Dn 50%: 5.33 nm

Dn 90%: 7.72 nm

Dispersion datas

Size (nm)	Number	Size (nm)	Number	Size (nm)	Number	Size (nm)	Number
5.33	0.79	8.47	0.07				
7.72	0.12	12.26	0.01				



Dispersion statistics

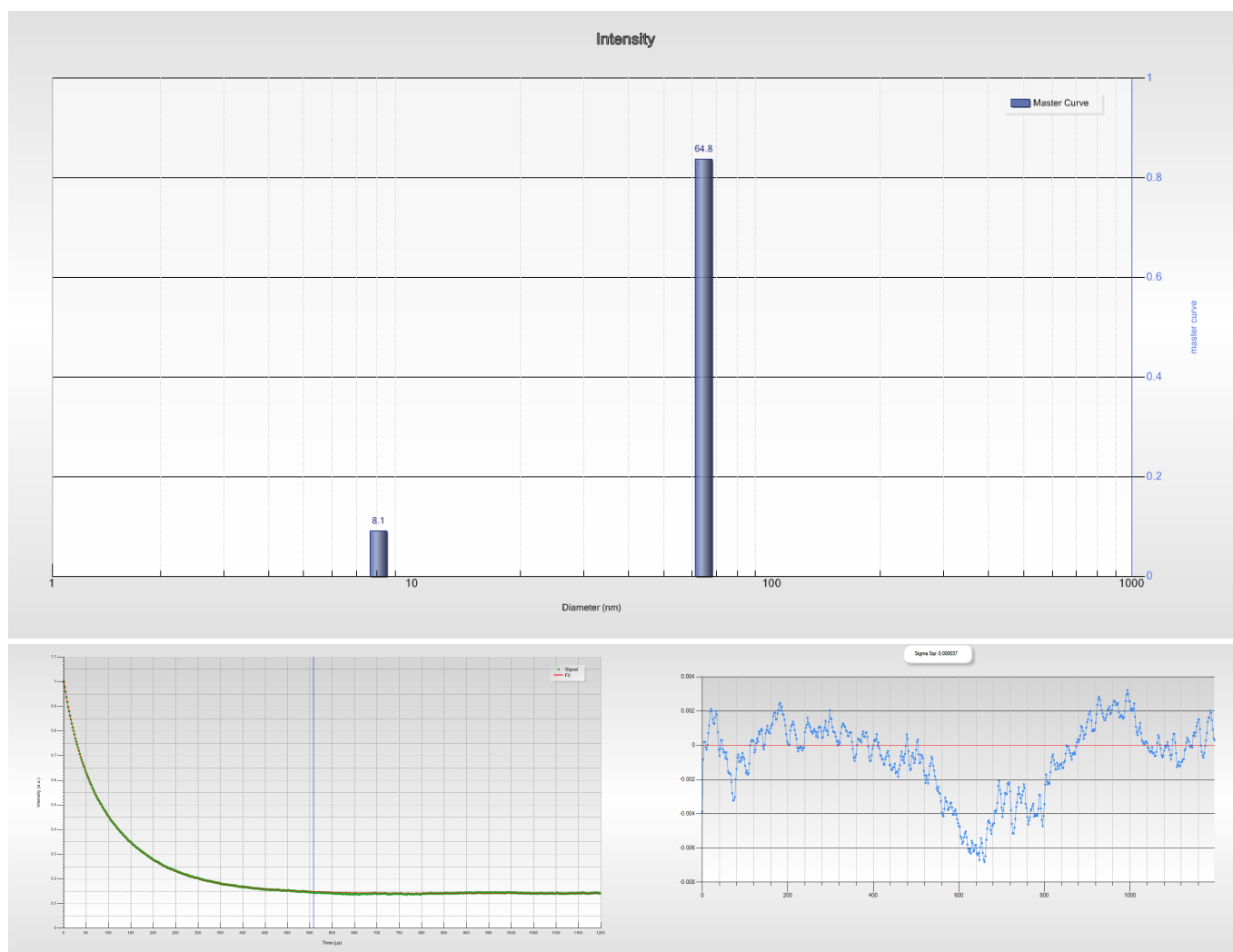
Dv 10%: 5.33 nm

Dv 50%: 7.72 nm

Dv 90%: 12.26 nm

Dispersion datas

Size (nm)	Volume	Size (nm)	Volume	Size (nm)	Volume	Size (nm)	Volume
5.33	0.45	8.47	0.17	20.38	0.04	61.83	0.01
7.72	0.22	12.26	0.1	59.03	0.01		



Dispersion statistics

Di 10%: 64.75 nm
Mean Intensity: 59.21 nm

Di 50%: 64.75 nm

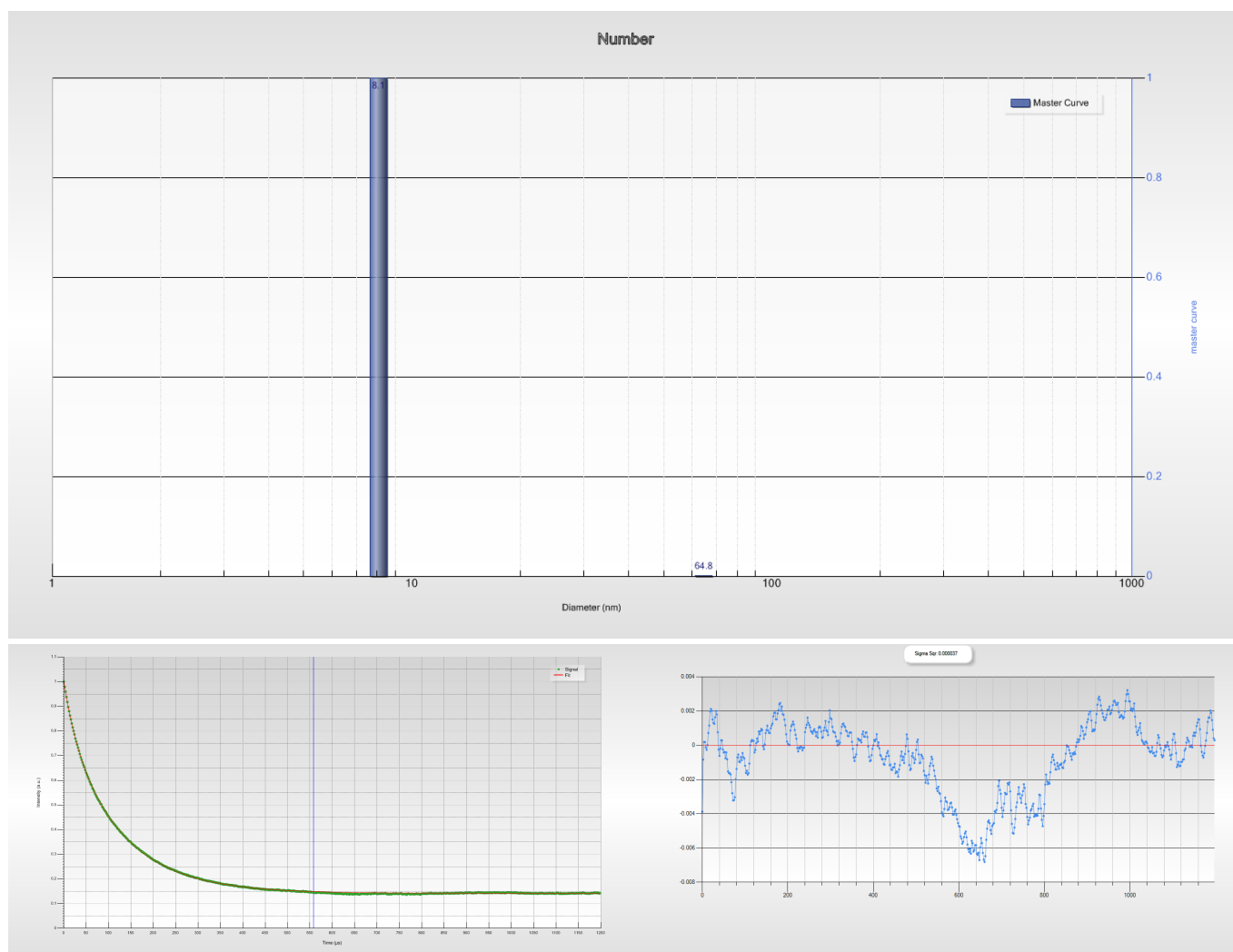
Di 90%: 64.75 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
8.1	0.09	32070.68	60.67254E-012
63.34	0.84	4101.52	77.59409E-013

Dispersion datas

Size (nm)	Intensity	Size (nm)	Intensity
8.08	0.1	64.75	0.9



Dispersion statistics

Dn 10%: 8.08 nm
Mean Number: 8.09 nm

Dn 50%: 8.08 nm

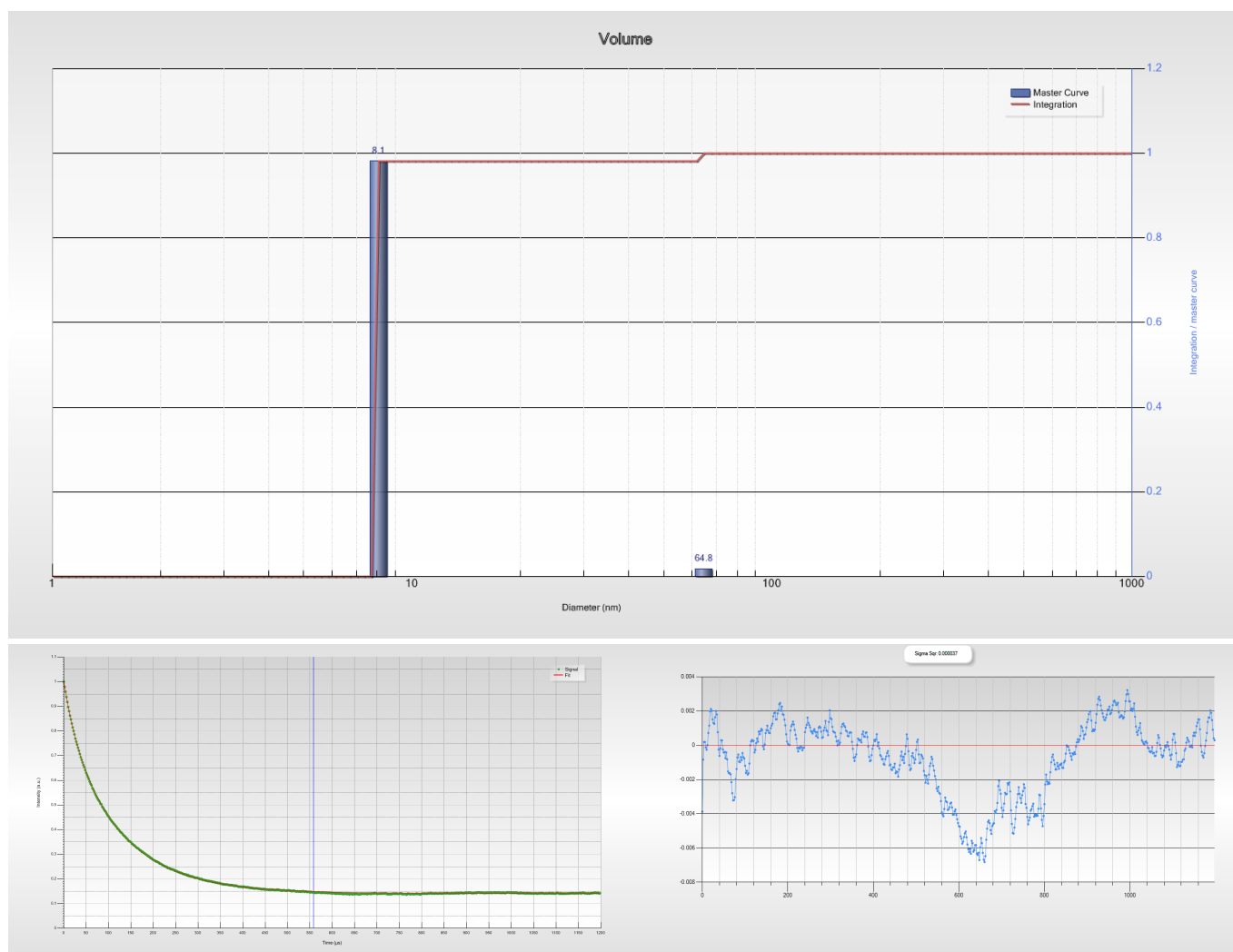
Dn 90%: 8.08 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
8.1	0.09	32070.68	60.67254E-012
63.34	0.84	4101.52	77.59409E-013

Dispersion datas

Size (nm)	Number
8.08	1



Dispersion statistics

Dv 10%: 8.08 nm
Mean Volume: 9.13 nm

Dv 50%: 8.08 nm

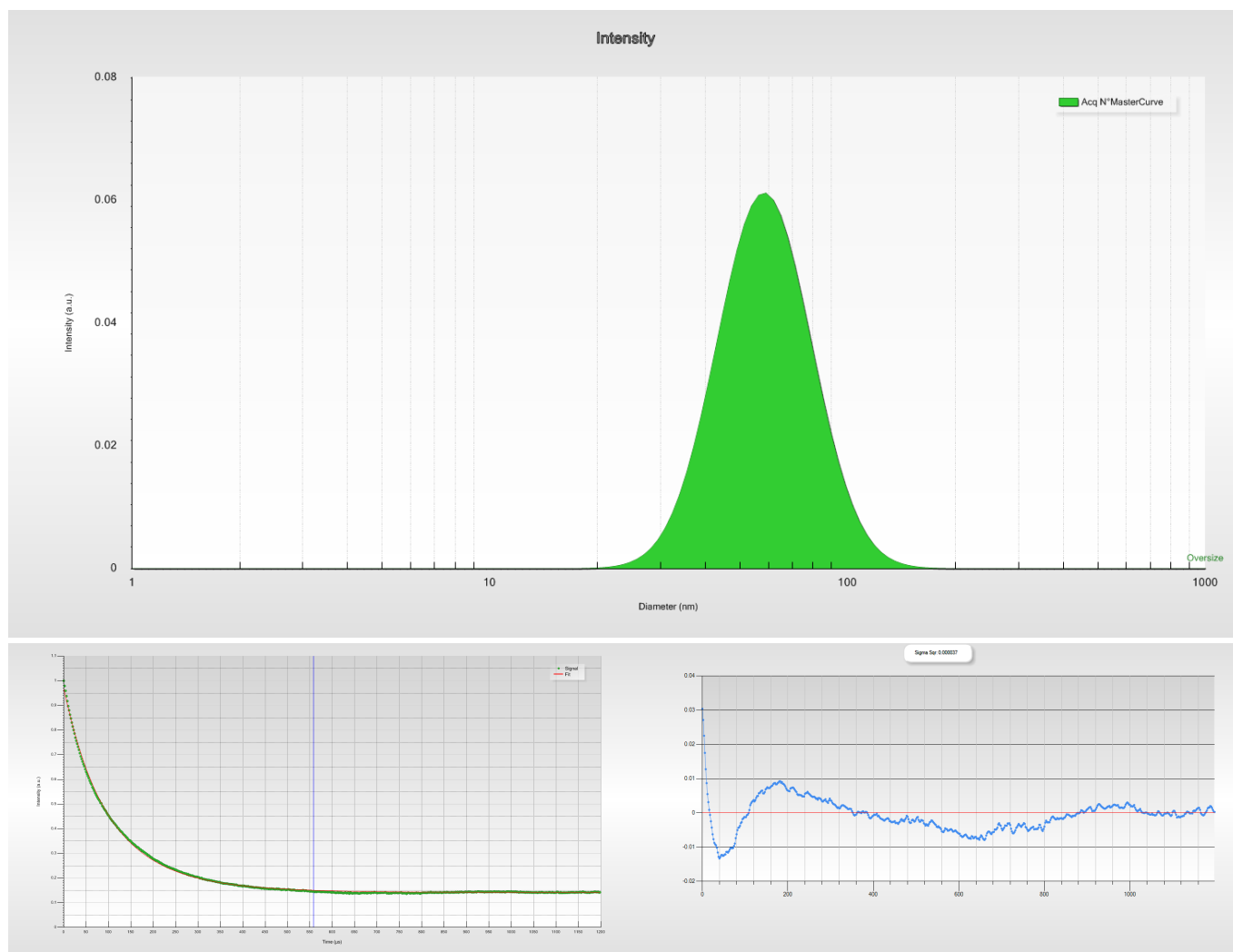
Dv 90%: 8.08 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
8.1	0.09	32070.68	60.67254E-012
63.34	0.84	4101.52	77.59409E-013

Dispersion datas

Size (nm)	Volume	Size (nm)	Volume
8.08	0.98	64.75	0.02



Distribution statistics

Di 10%: 38.94 nm
Mean Intensity: 61.02 nm
PDI : 0.38008

Di 50%: 59.03 nm

Di 90%: 85.45 nm

Std Dev: 30.83%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
50.88	0.83	5105.61	96.58992E-013



Distribution statistics

Dn 10%: 23.41 nm
Mean Number: 35.53 nm
PDI : 0.38008

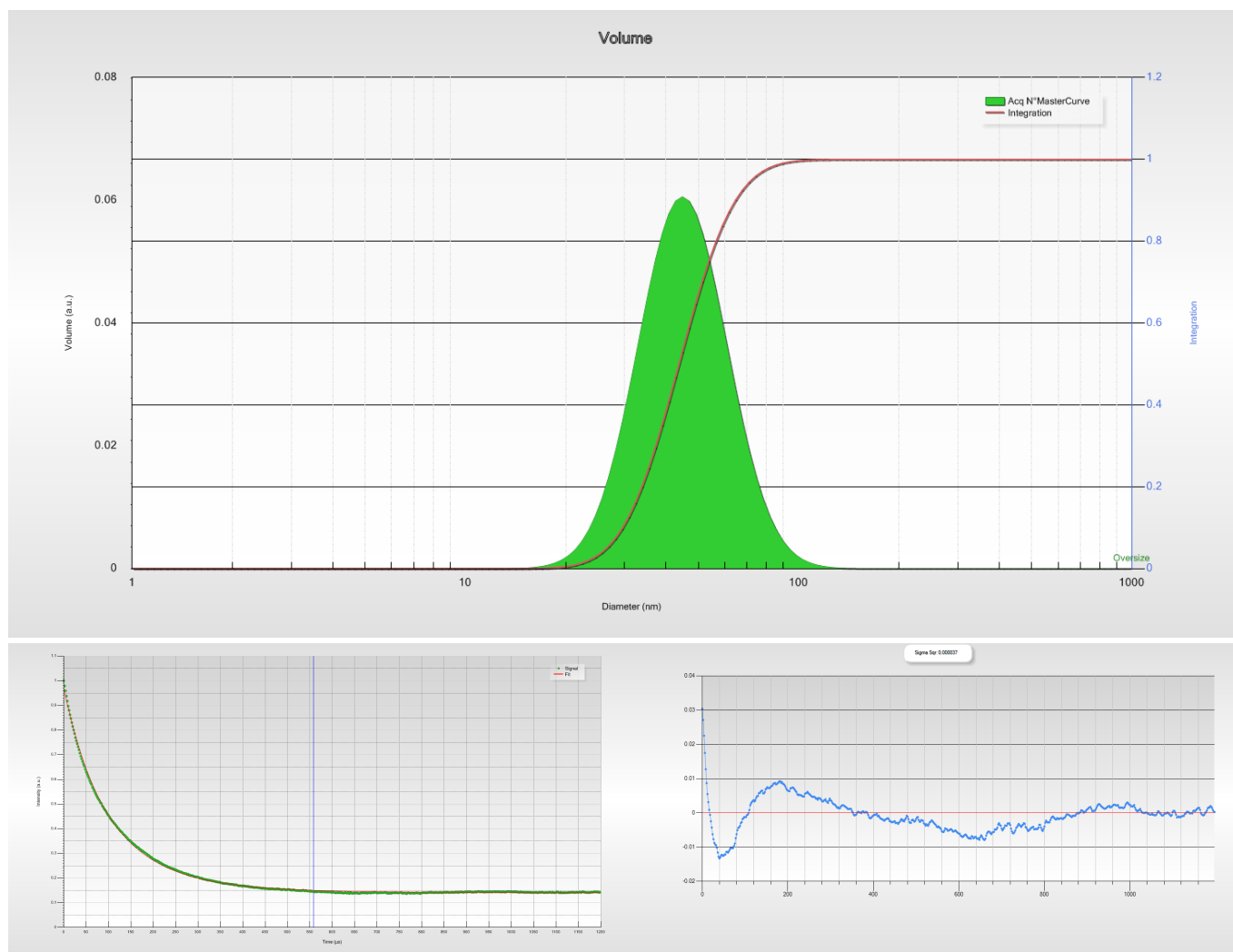
Dn 50%: 33.89 nm

Dn 90%: 49.06 nm

Std Dev: 30.83%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
50.88	0.83	5105.61	96.58992E-013



Distribution statistics

Dv 10%: 30.9 nm
Mean Volume: 46.91 nm
PDI : 0.38008

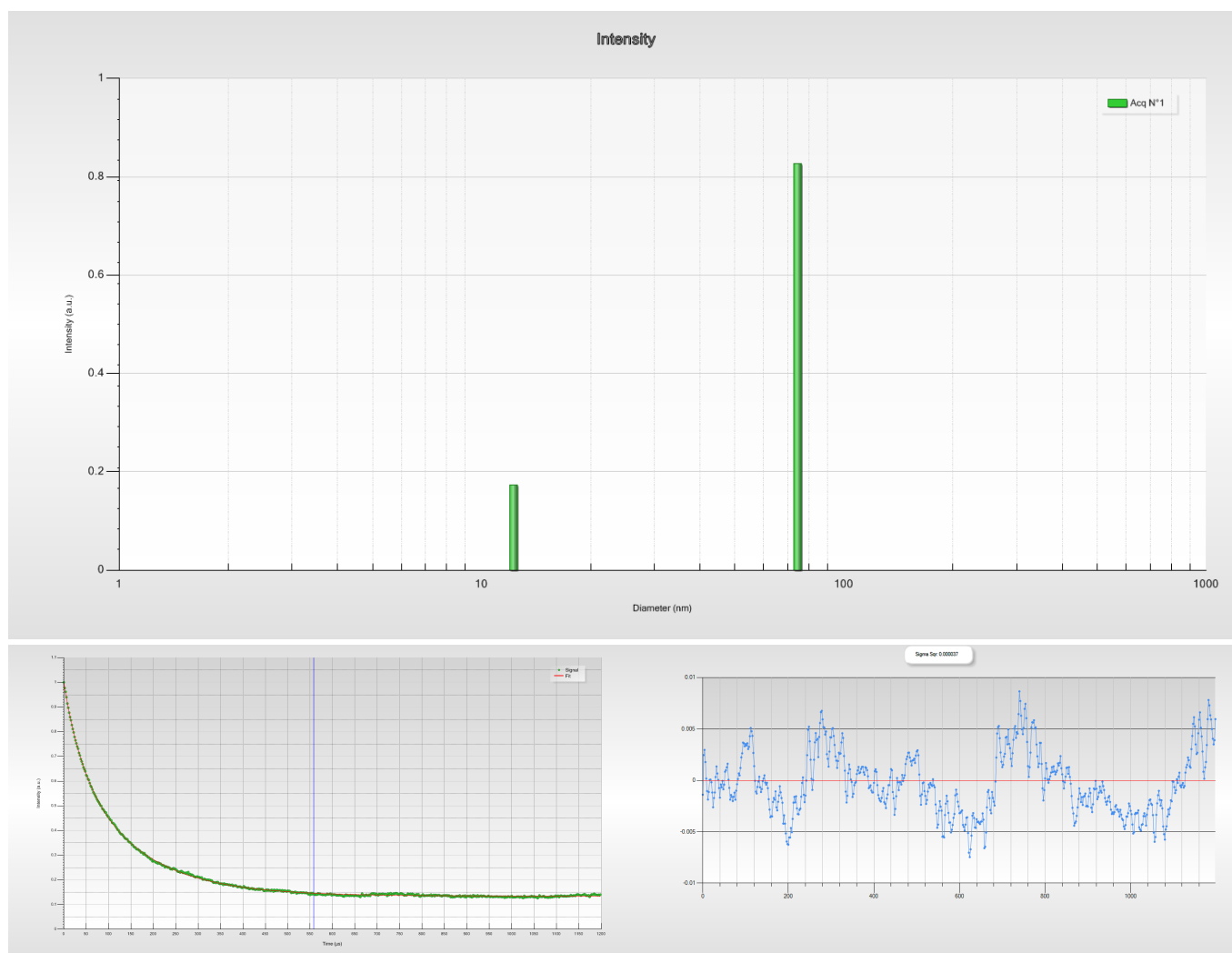
Dv 50%: 44.73 nm

Dv 90%: 64.75 nm

Std Dev: 30.83%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
50.88	0.83	5105.61	96.58992E-013



Dispersion statistics

Di 10%: 12.26 nm
Mean Intensity: 63.64 nm

Di 50%: 74.39 nm

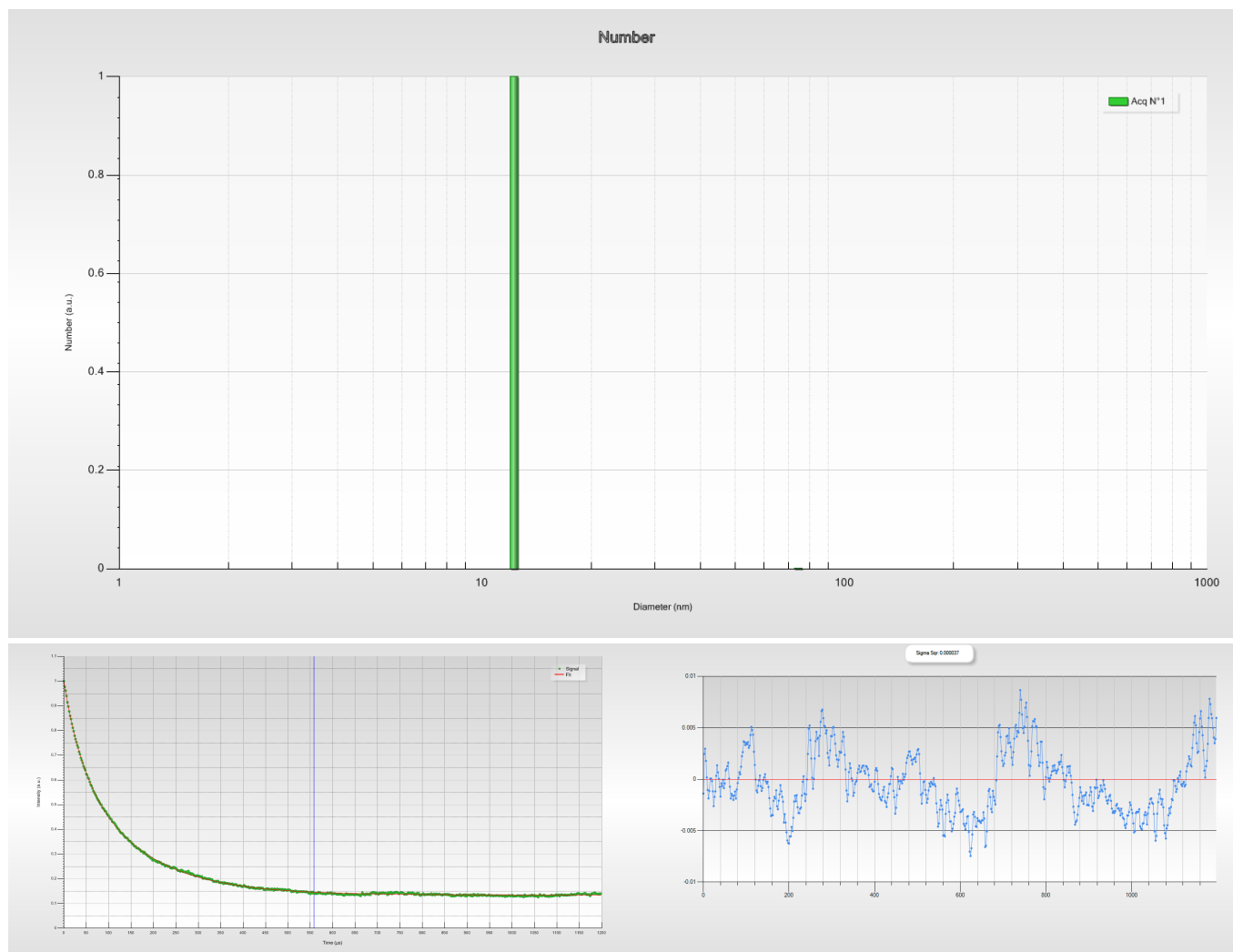
Di 90%: 74.39 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
12.38	0.16	20986.93	39.70388E-012
74.38	0.77	3492.92	66.08035E-013

Dispersion datas

Size (nm)	Intensity	Size (nm)	Intensity
12.26	0.17	74.39	0.83



Dispersion statistics

Dn 10%: 12.26 nm
Mean Number: 12.26 nm

Dn 50%: 12.26 nm

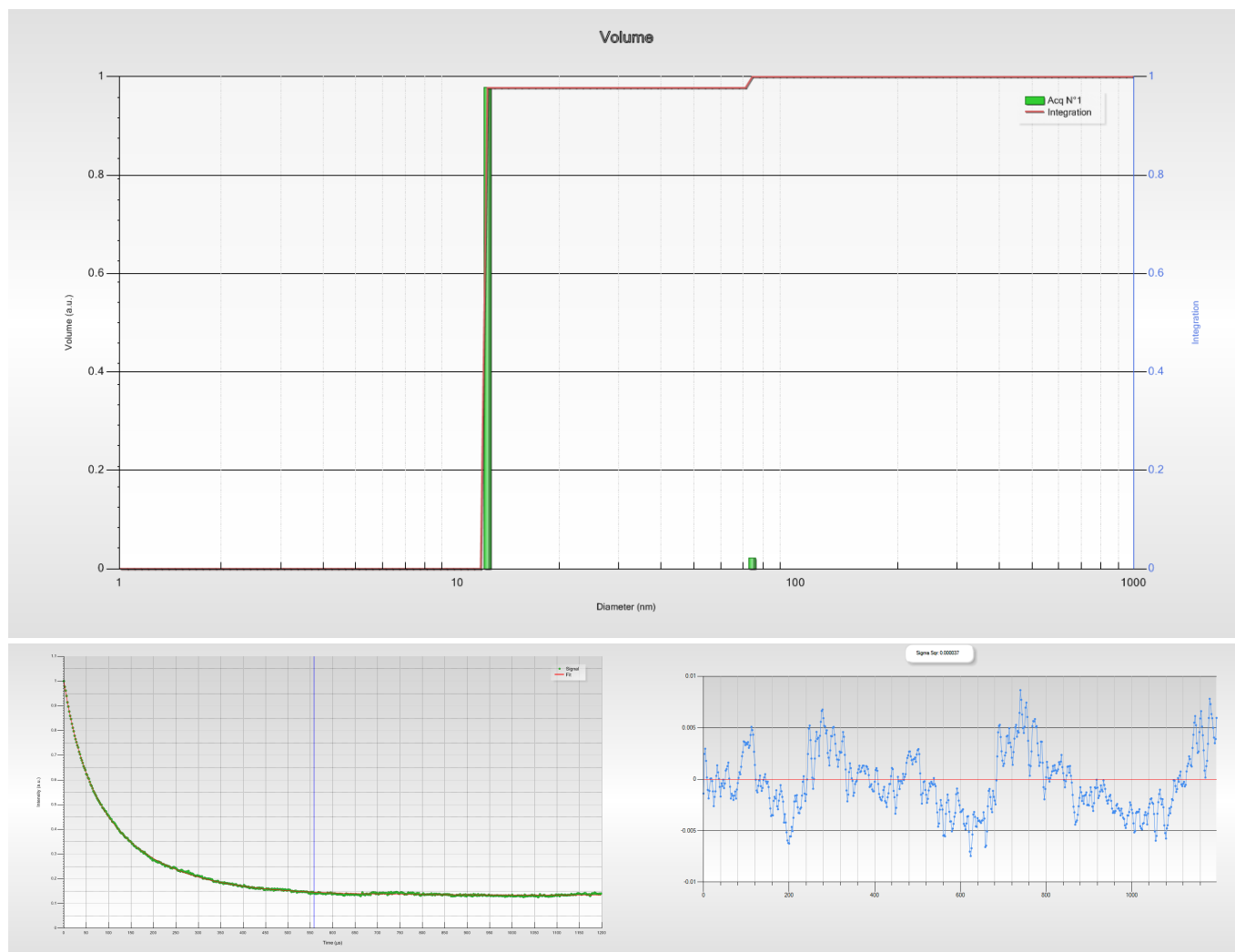
Dn 90%: 12.26 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
12.38	0.16	20986.93	39.70388E-012
74.38	0.77	3492.92	66.08035E-013

Dispersion datas

Size (nm)	Number
12.26	1



Dispersion statistics

Dv 10%: 12.26 nm
Mean Volume: 13.64 nm

Dv 50%: 12.26 nm

Dv 90%: 12.26 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
12.38	0.16	20986.93	39.70388E-012
74.38	0.77	3492.92	66.08035E-013

Dispersion datas

Size (nm)	Volume	Size (nm)	Volume
12.26	0.98	74.39	0.02

**Distribution statistics**

Di 10%: 38.94 nm
Mean Intensity: 64.64 nm
PDI : 0.50072

Di 50%: 61.83 nm

Di 90%: 93.73 nm

Std Dev: 35.38%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m²/s)
51.05	0.83	5089.29	96.28107E-013

**Distribution statistics**

Dn 10%: 19.46 nm
Mean Number: 31.98 nm
PDI : 0.50072

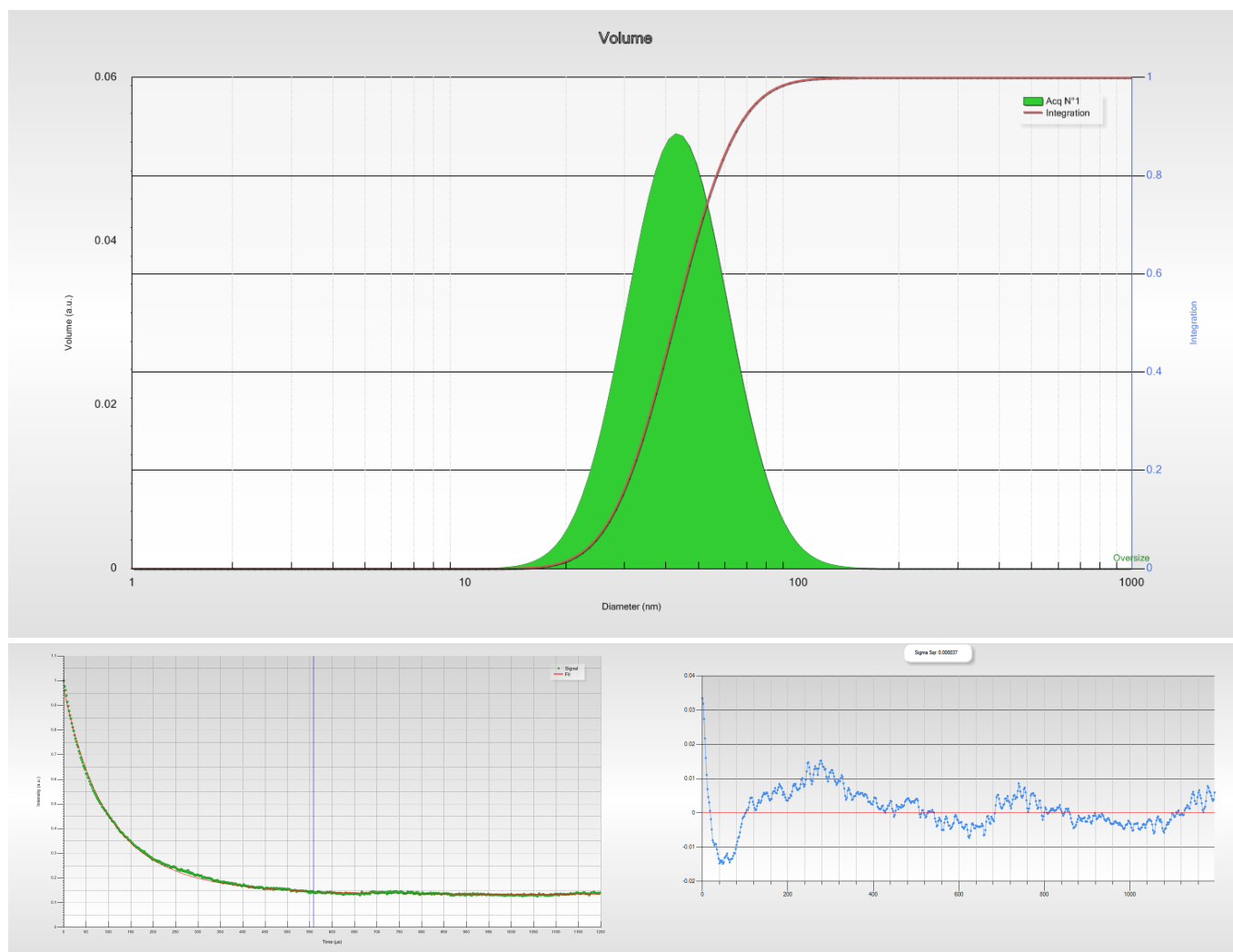
Dn 50%: 29.5 nm

Dn 90%: 46.85 nm

Std Dev: 35.38%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m²/s)
51.05	0.83	5089.29	96.28107E-013



Distribution statistics

Dv 10%: 28.17 nm
Mean Volume: 45.88 nm
PDI : 0.50072

Dv 50%: 42.71 nm

Dv 90%: 67.81 nm

Std Dev: 35.38%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m²/s)
51.05	0.83	5089.29	96.28107E-013



Dispersion statistics

Di 10%: 61.83 nm
Mean Intensity: 56.92 nm

Di 50%: 61.83 nm

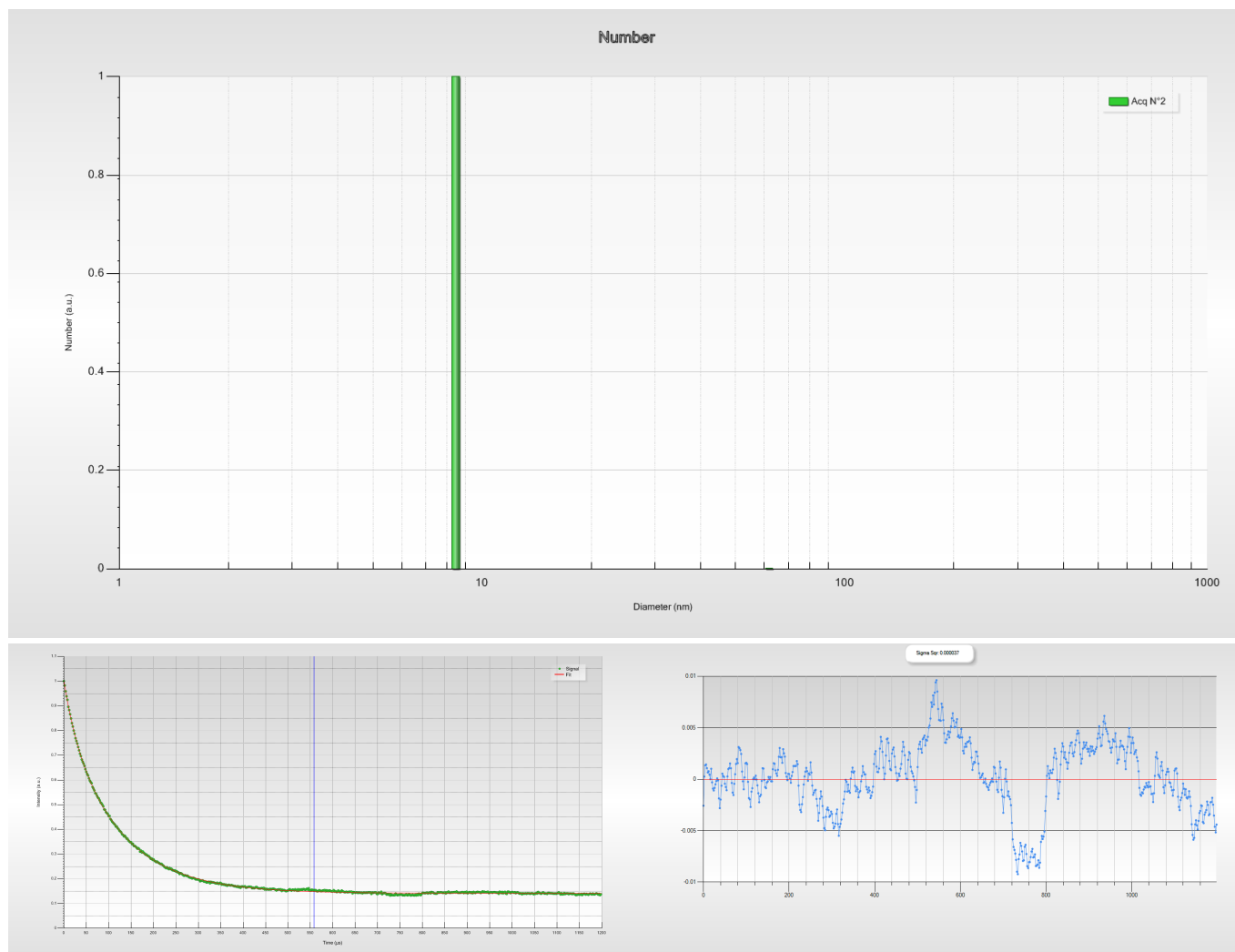
Di 90%: 61.83 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
8.33	0.09	31191.72	59.00968E-012
62.44	0.84	4160.46	78.70915E-013

Dispersion datas

Size (nm)	Intensity	Size (nm)	Intensity
8.47	0.09	61.83	0.91



Dispersion statistics

Dn 10%: 8.47 nm
Mean Number: 8.47 nm

Dn 50%: 8.47 nm

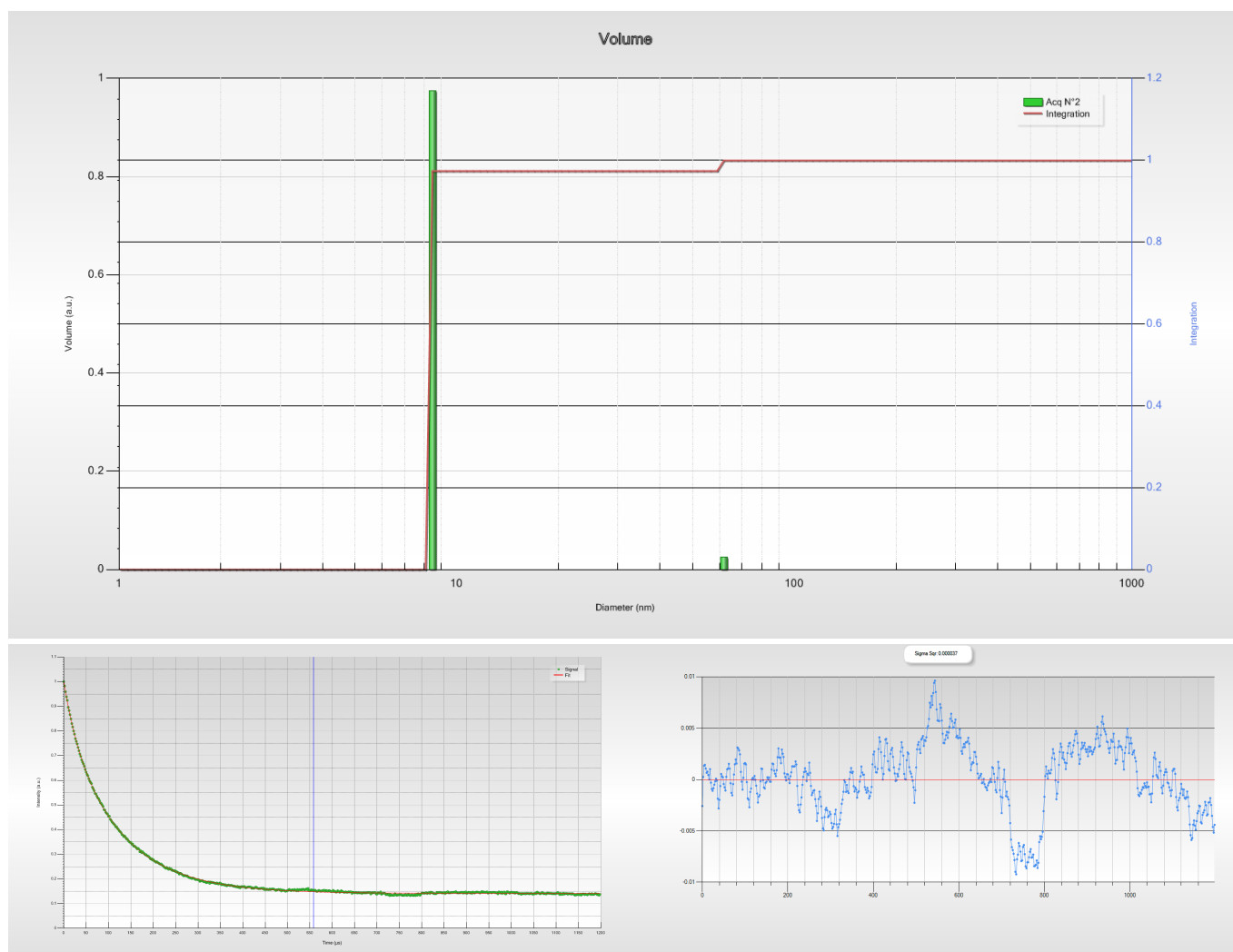
Dn 90%: 8.47 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
8.33	0.09	31191.72	59.00968E-012
62.44	0.84	4160.46	78.70915E-013

Dispersion datas

Size (nm)	Number
8.47	1



Dispersion statistics

Dv 10%: 8.47 nm
Mean Volume: 9.84 nm

Dv 50%: 8.47 nm

Dv 90%: 8.47 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
8.33	0.09	31191.72	59.00968E-012
62.44	0.84	4160.46	78.70915E-013

Dispersion datas

Size (nm)	Volume	Size (nm)	Volume
8.47	0.97	61.83	0.03

**Distribution statistics**

Di 10%: 38.94 nm
Mean Intensity: 60.23 nm
PDI : 0.35488

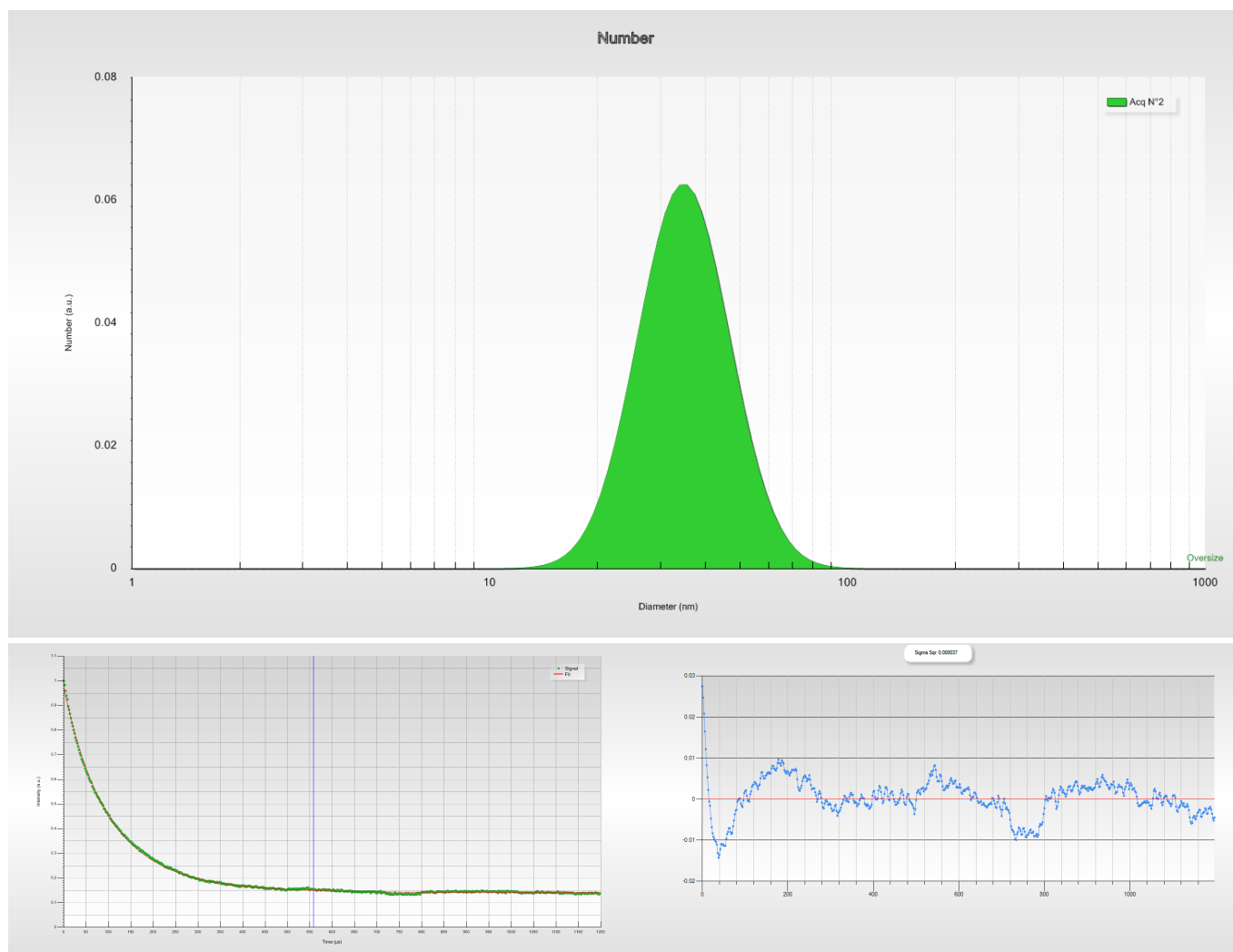
Di 50%: 59.03 nm

Di 90%: 85.45 nm

Std Dev: 29.79%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m²/s)
50.81	0.83	5113.22	96.7339E-013



Distribution statistics

Dn 10%: 23.41 nm
Mean Number: 36.3 nm
PDI : 0.35488

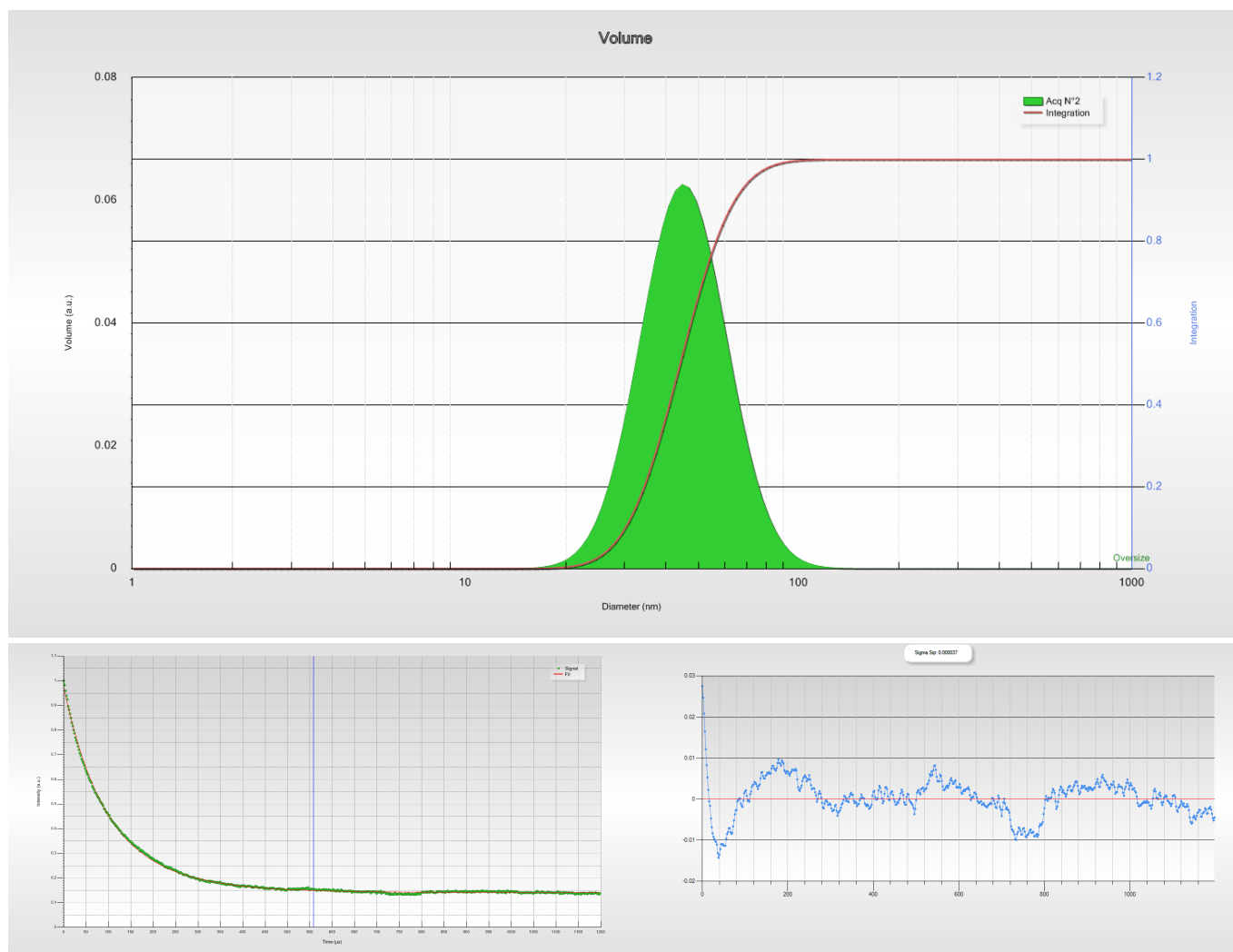
Dn 50%: 35.5 nm

Dn 90%: 51.39 nm

Std Dev: 29.79%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m²/s)
50.81	0.83	5113.22	96.7339E-013

**Distribution statistics**

Dv 10%: 30.9 nm
Mean Volume: 47.09 nm
PDI : 0.35488

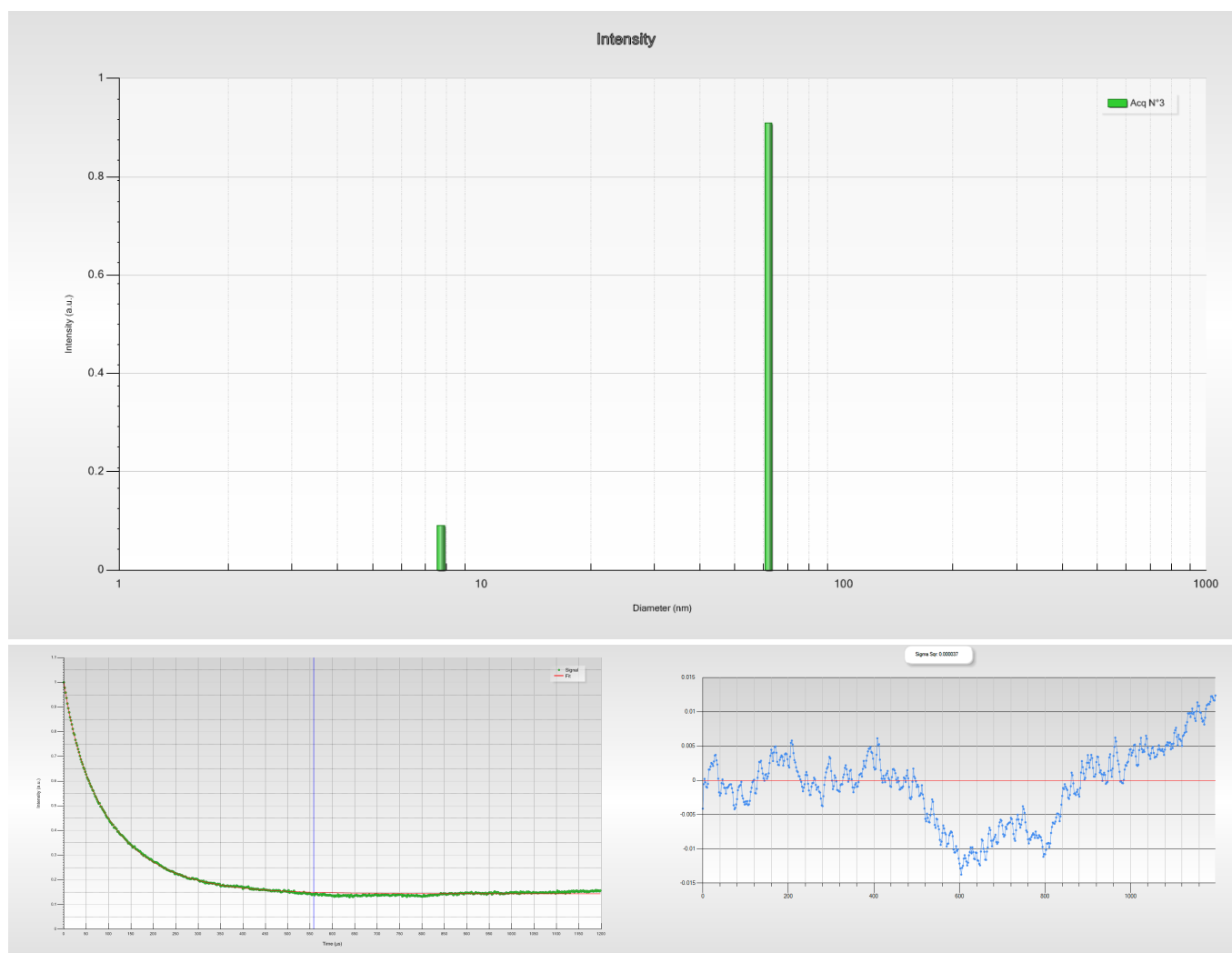
Dv 50%: 44.73 nm

Dv 90%: 64.75 nm

Std Dev: 29.79%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m²/s)
50.81	0.83	5113.22	96.7339E-013



Dispersion statistics

Di 10%: 61.83 nm
Mean Intensity: 56.92 nm

Di 50%: 61.83 nm

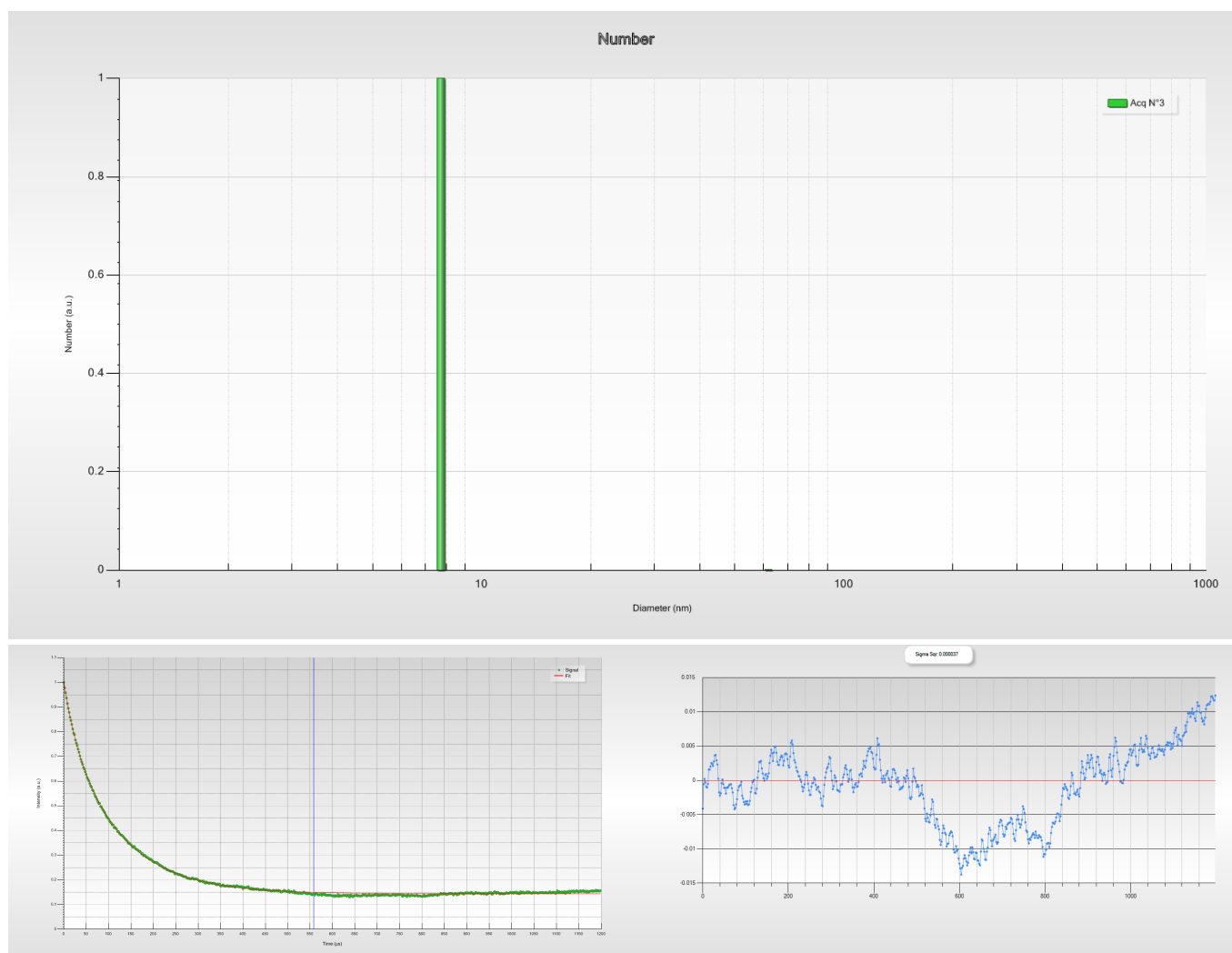
Di 90%: 61.83 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
7.6	0.08	34173.86	64.65141E-012
60.62	0.84	4285.15	81.06807E-013

Dispersion datas

Size (nm)	Intensity	Size (nm)	Intensity
7.72	0.09	61.83	0.91



Dispersion statistics

Dn 10%: 7.72 nm
Mean Number: 7.72 nm

Dn 50%: 7.72 nm

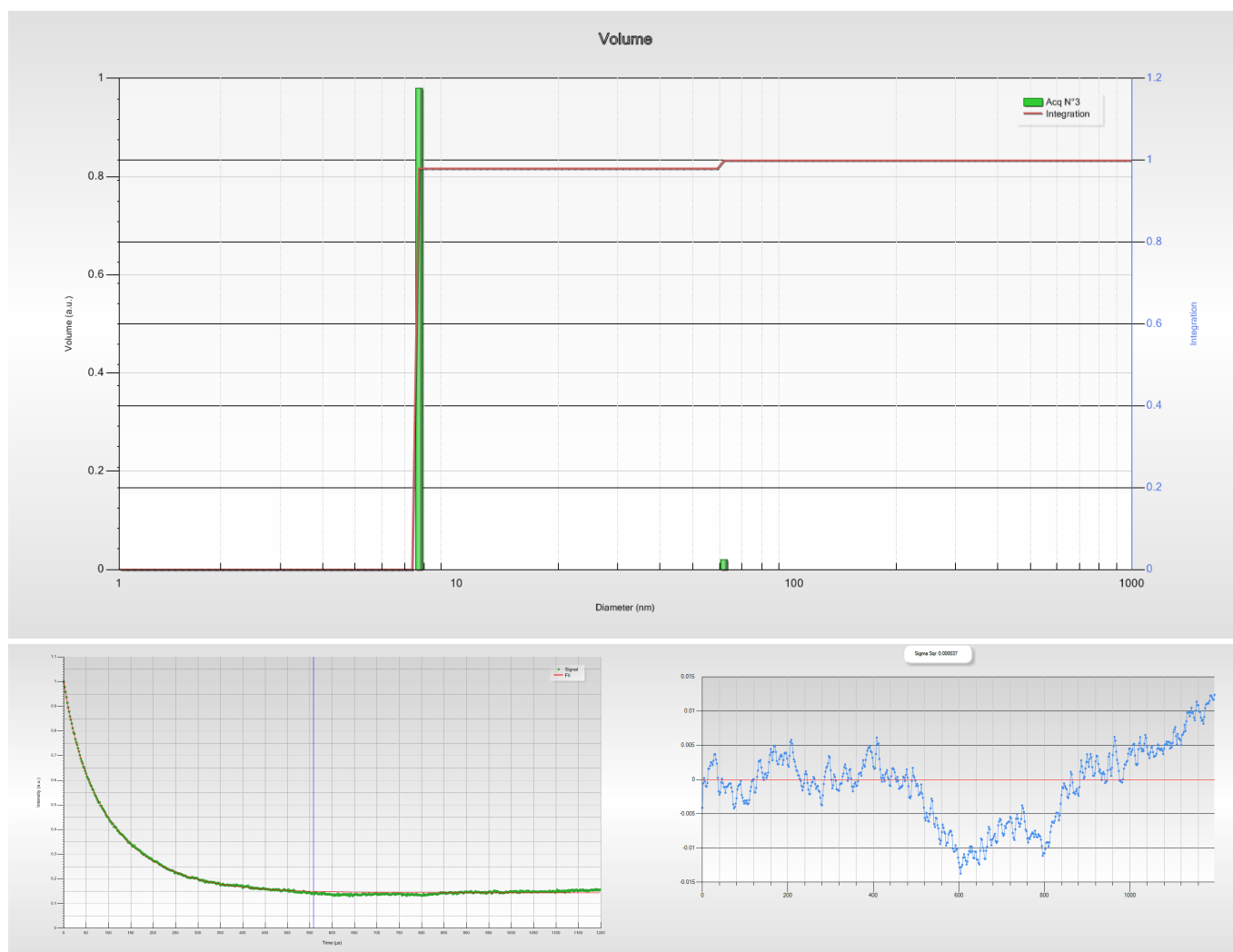
Dn 90%: 7.72 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
7.6	0.08	34173.86	64.65141E-012
60.62	0.84	4285.15	81.06807E-013

Dispersion datas

Size (nm)	Number
7.72	1



Dispersion statistics

Dv 10%: 7.72 nm
Mean Volume: 8.8 nm

Dv 50%: 7.72 nm

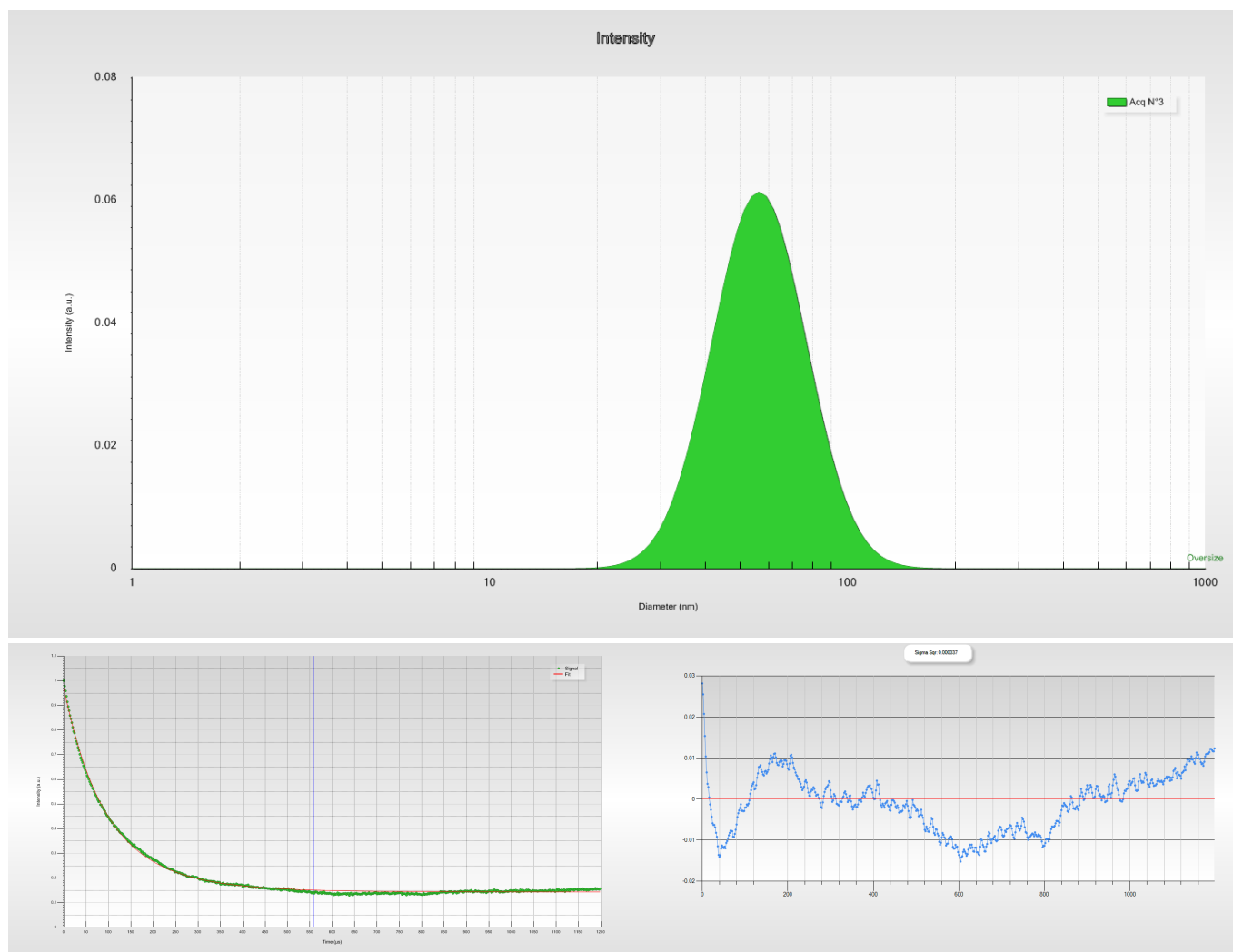
Dv 90%: 7.72 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
7.6	0.08	34173.86	64.65141E-012
60.62	0.84	4285.15	81.06807E-013

Dispersion datas

Size (nm)	Volume	Size (nm)	Volume
7.72	0.98	61.83	0.02



Distribution statistics

Di 10%: 38.94 nm
Mean Intensity: 59.09 nm
PDI : 0.37845

Di 50%: 56.36 nm

Di 90%: 81.59 nm

Std Dev: 30.76%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m²/s)
49.3	0.83	5269.19	99.68459E-013

**Distribution statistics**

Dn 10%: 22.36 nm
Mean Number: 34.47 nm
PDI : 0.37845

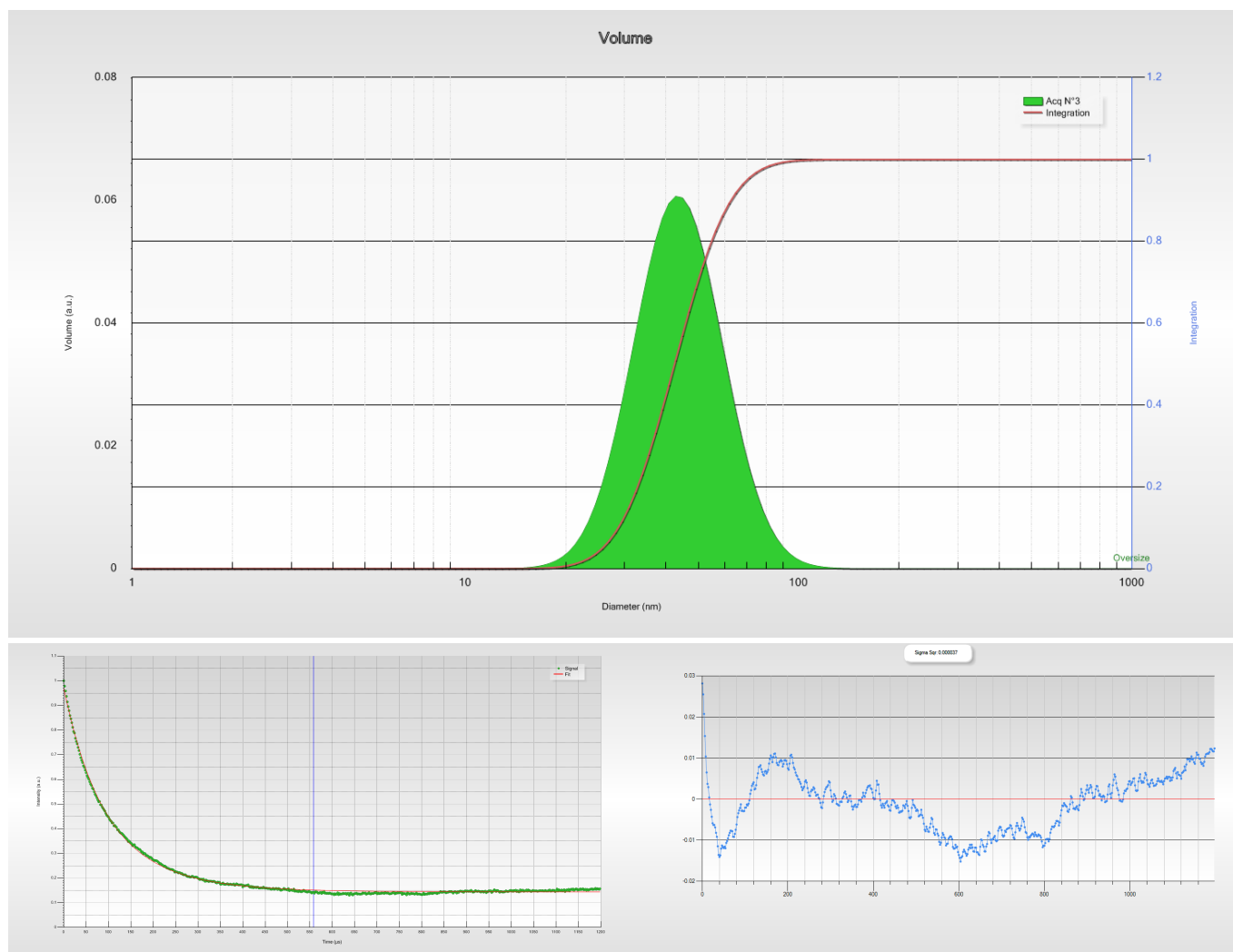
Dn 50%: 32.36 nm

Dn 90%: 49.06 nm

Std Dev: 30.76%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m²/s)
49.3	0.83	5269.19	99.68459E-013



Distribution statistics

Dv 10%: 29.5 nm
Mean Volume: 45.45 nm
PDI : 0.37845

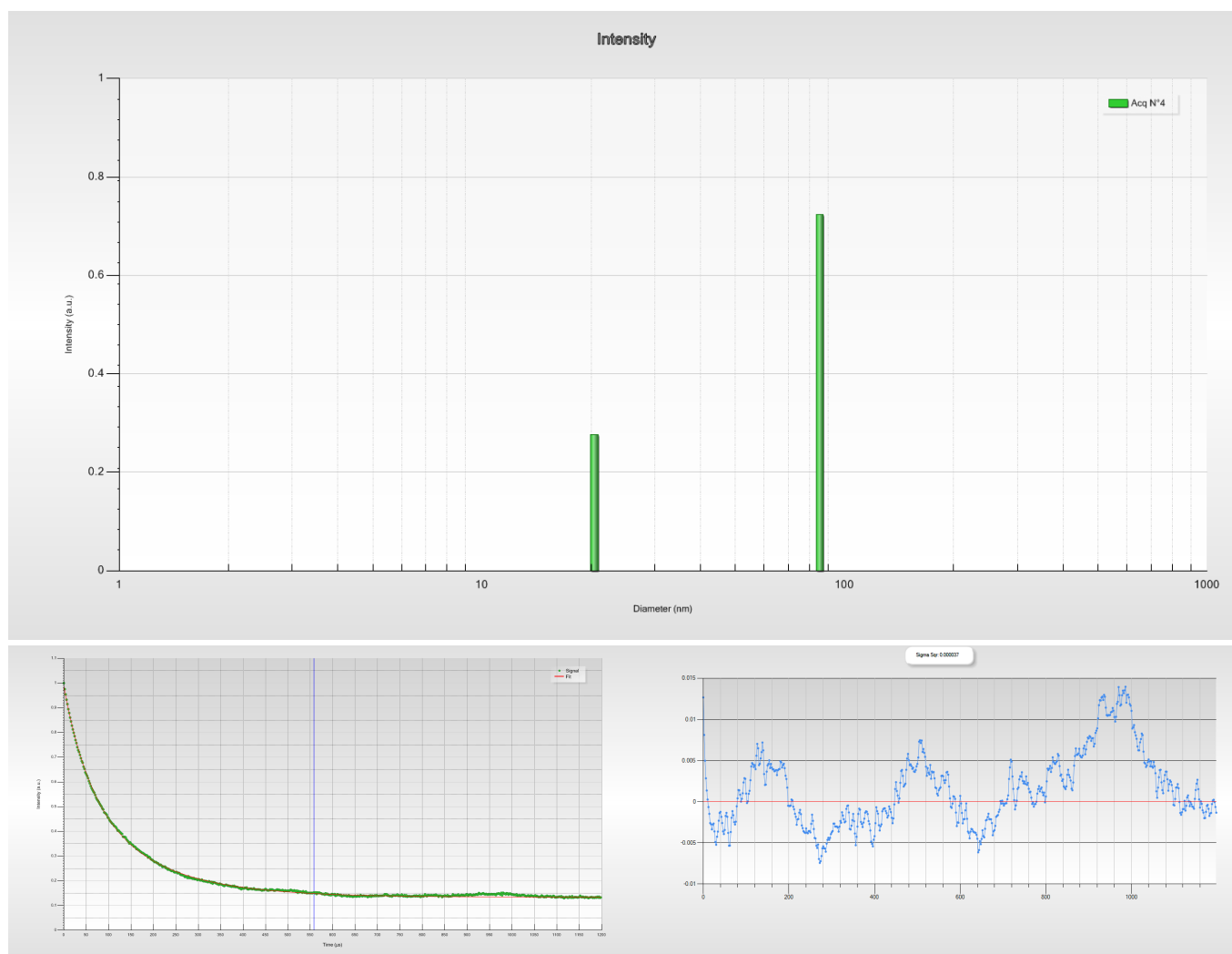
Dv 50%: 42.71 nm

Dv 90%: 64.75 nm

Std Dev: 30.76%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
49.3	0.83	5269.19	99.68459E-013



Dispersion statistics

Di 10%: 20.38 nm
Mean Intensity: 67.51 nm

Di 50%: 85.45 nm

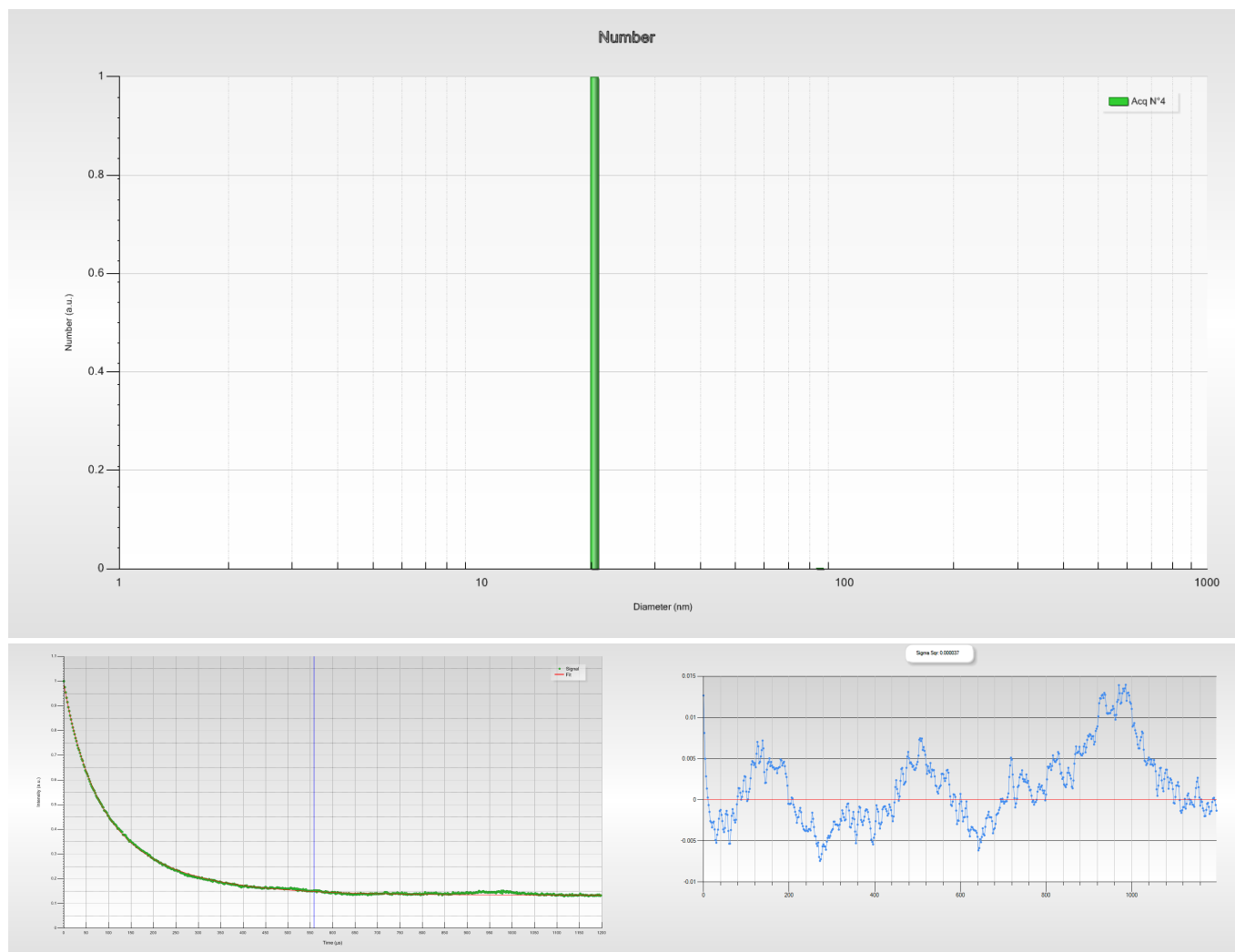
Di 90%: 85.45 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
20.06	0.25	12953.36	24.50565E-012
85.47	0.67	3039.37	57.49991E-013

Dispersion datas

Size (nm)	Intensity	Size (nm)	Intensity
20.38	0.28	85.45	0.72



Dispersion statistics

Dn 10%: 20.38 nm
Mean Number: 20.42 nm

Dn 50%: 20.38 nm

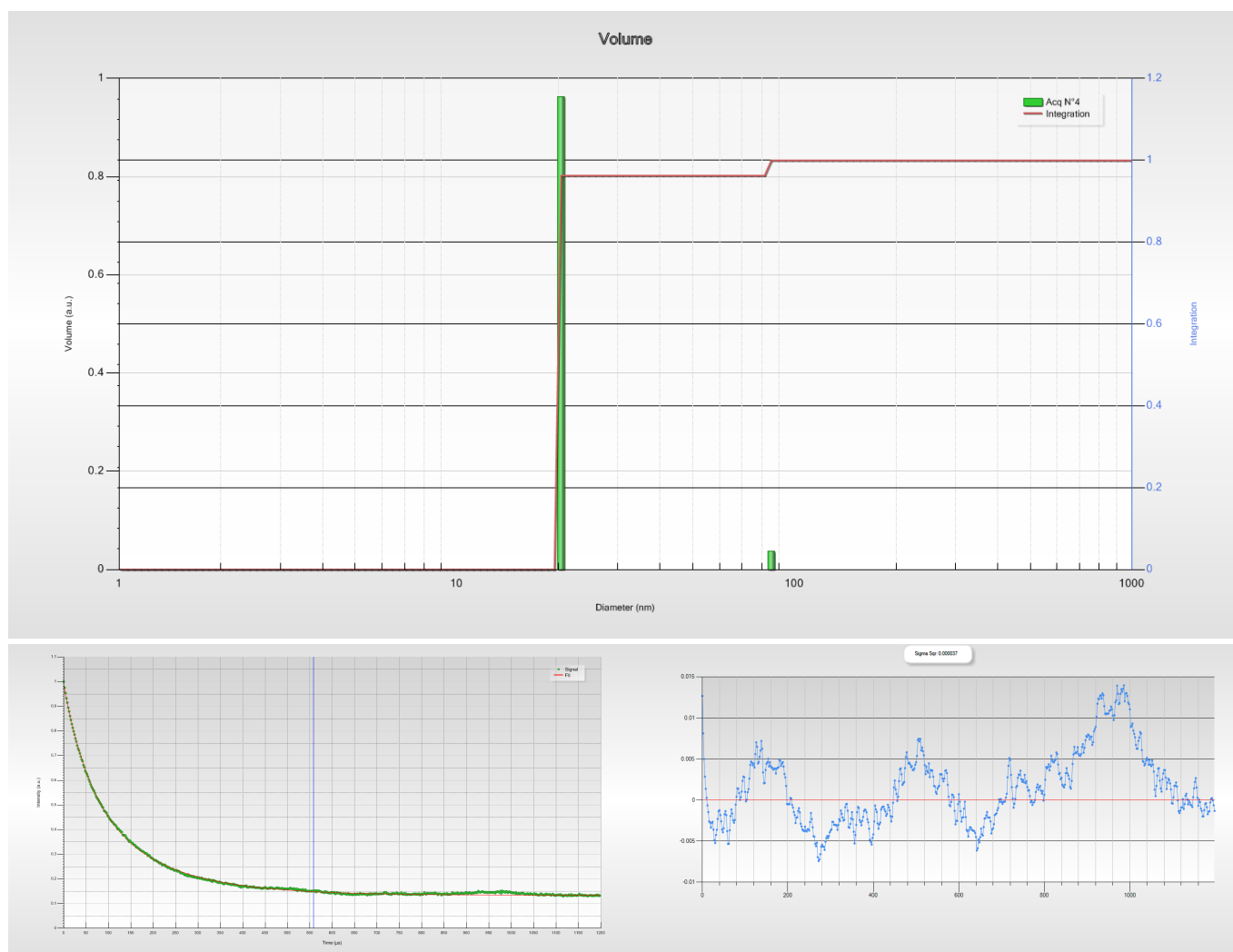
Dn 90%: 20.38 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m²/s)
20.06	0.25	12953.36	24.50565E-012
85.47	0.67	3039.37	57.49991E-013

Dispersion datas

Size (nm)	Number
20.38	1



Dispersion statistics

Dv 10%: 20.38 nm
Mean Volume: 22.8 nm

Dv 50%: 20.38 nm

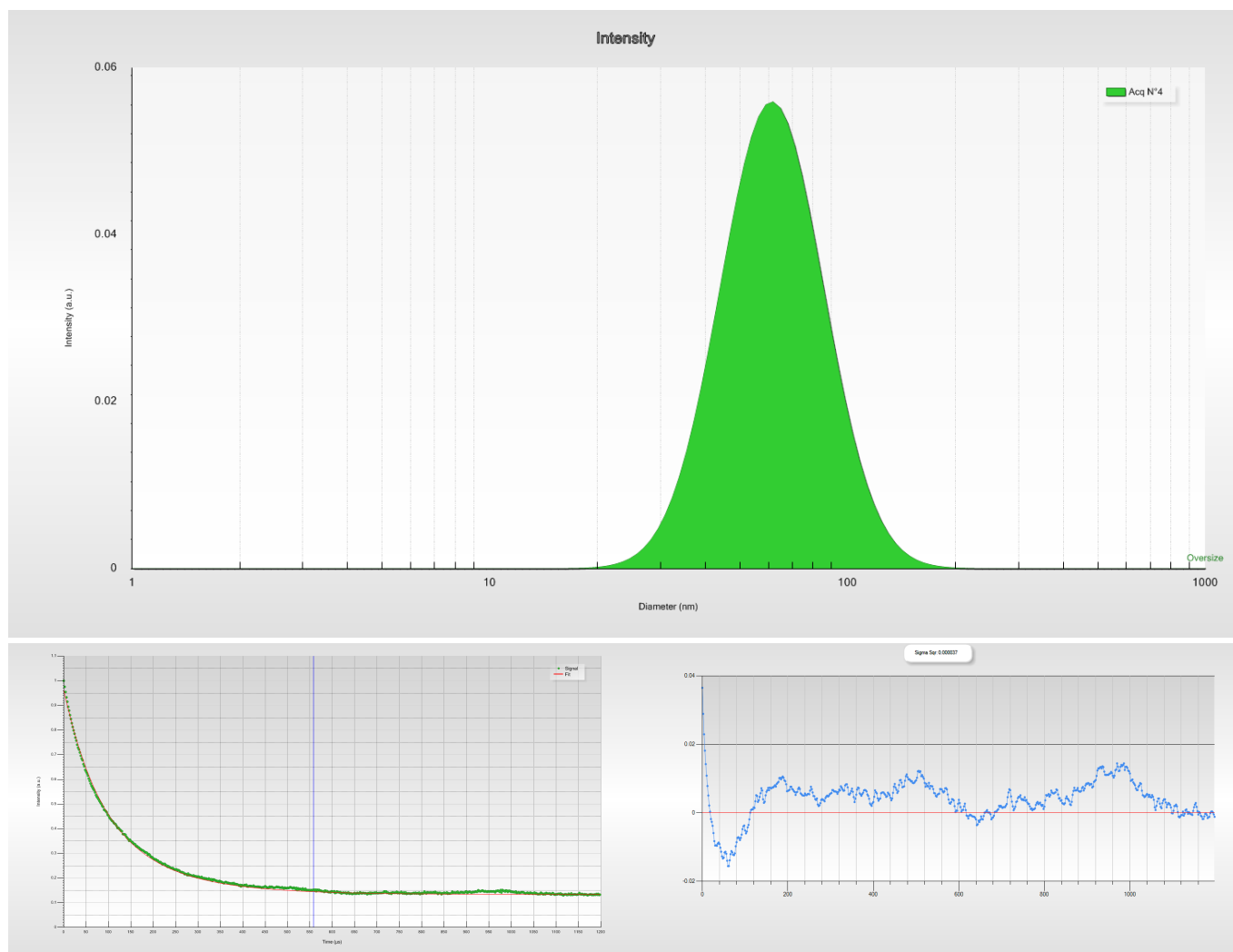
Dv 90%: 20.38 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
20.06	0.25	12953.36	24.50565E-012
85.47	0.67	3039.37	57.49991E-013

Dispersion datas

Size (nm)	Volume	Size (nm)	Volume
20.38	0.96	85.45	0.04

**Distribution statistics**

Di 10%: 40.78 nm
Mean Intensity: 64.75 nm
PDI : 0.45961

Di 50%: 61.83 nm

Di 90%: 93.73 nm

Std Dev: 33.9%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m²/s)
52.08	0.83	4988.18	94.36828E-013

**Distribution statistics**

Dn 10%: 21.35 nm
Mean Number: 33.85 nm
PDI : 0.45961

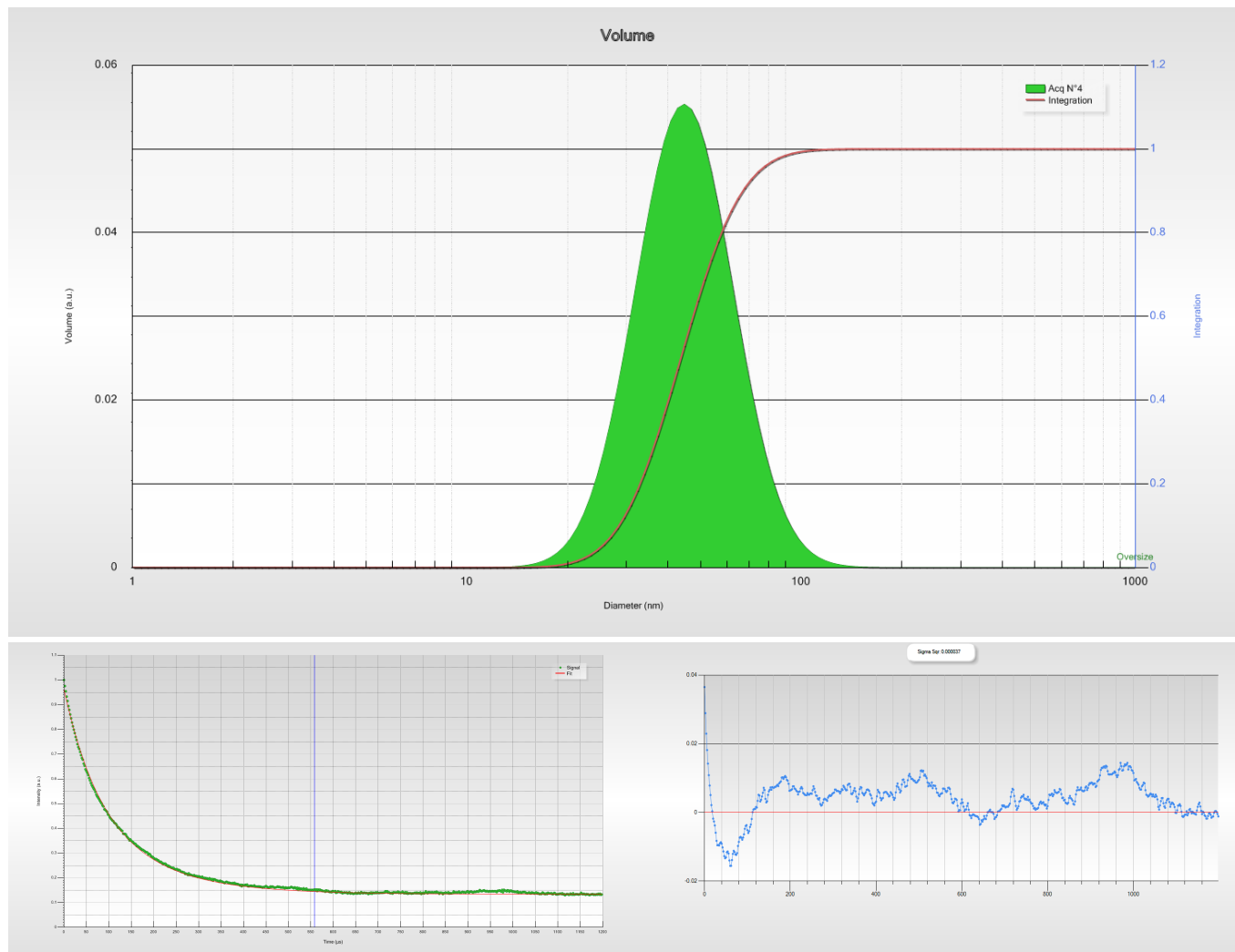
Dn 50%: 32.36 nm

Dn 90%: 49.06 nm

Std Dev: 33.9%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m²/s)
52.08	0.83	4988.18	94.36828E-013



Distribution statistics

Dv 10%: 29.5 nm
Mean Volume: 47.23 nm
PDI : 0.45961

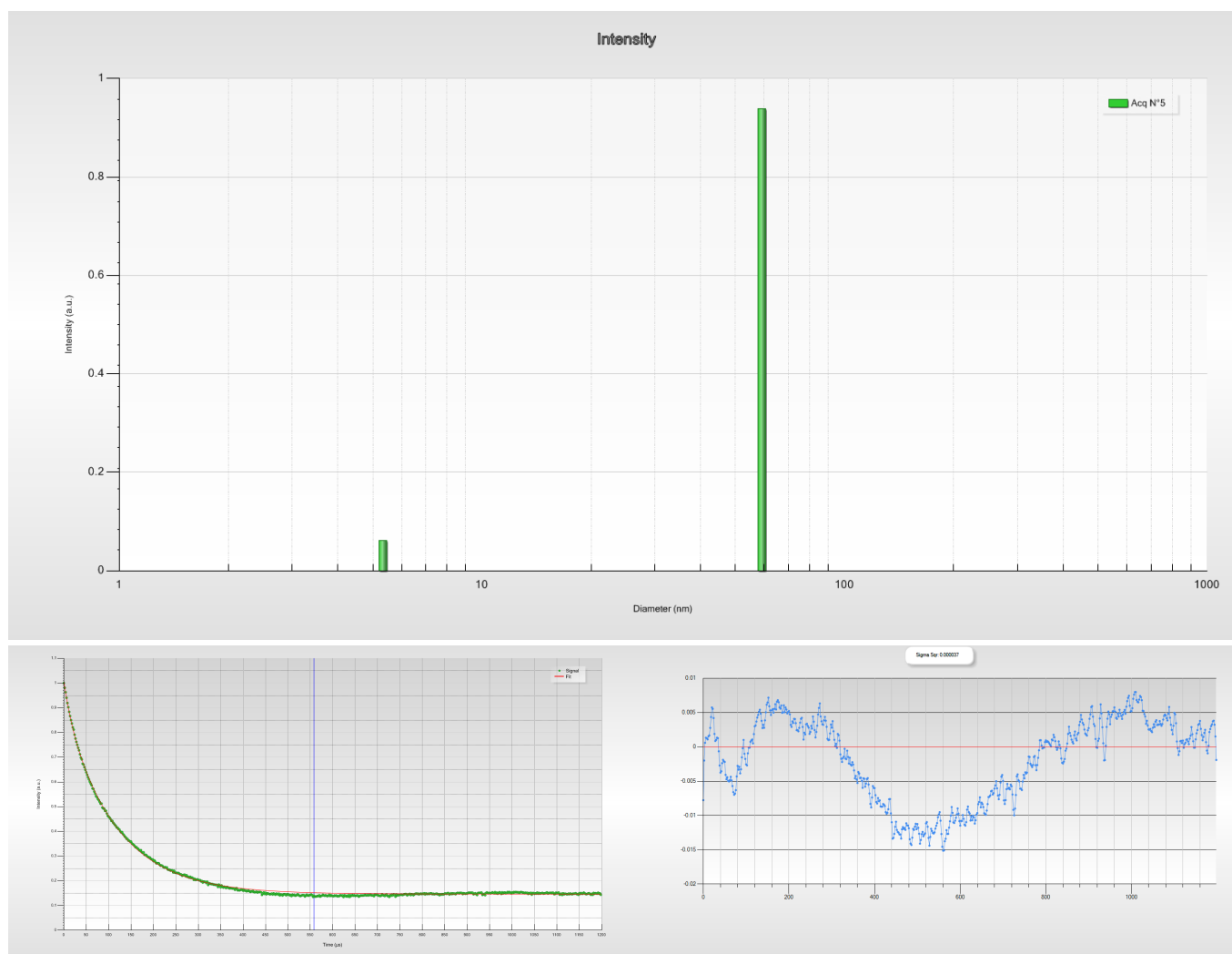
Dv 50%: 44.73 nm

Dv 90%: 67.81 nm

Std Dev: 33.9%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
52.08	0.83	4988.18	94.36828E-013



Dispersion statistics

Di 10%: 59.03 nm
Mean Intensity: 55.7 nm

Di 50%: 59.03 nm

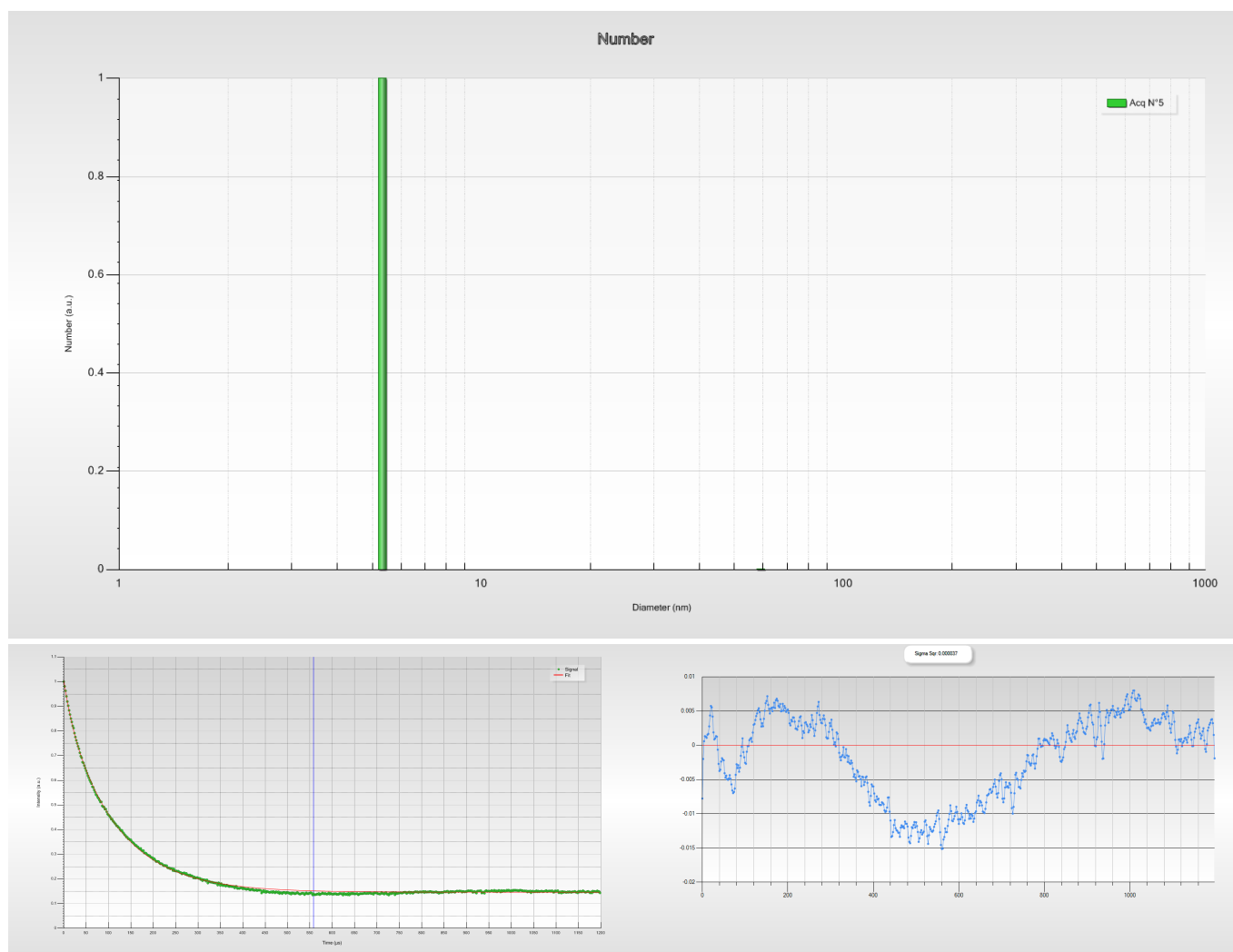
Di 90%: 59.03 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
5.29	0.06	49128.27	92.94273E-012
59.26	0.87	4383.86	82.93554E-013

Dispersion datas

Size (nm)	Intensity	Size (nm)	Intensity
5.33	0.06	59.03	0.94



Dispersion statistics

Dn 10%: 5.33 nm
Mean Number: 5.33 nm

Dn 50%: 5.33 nm

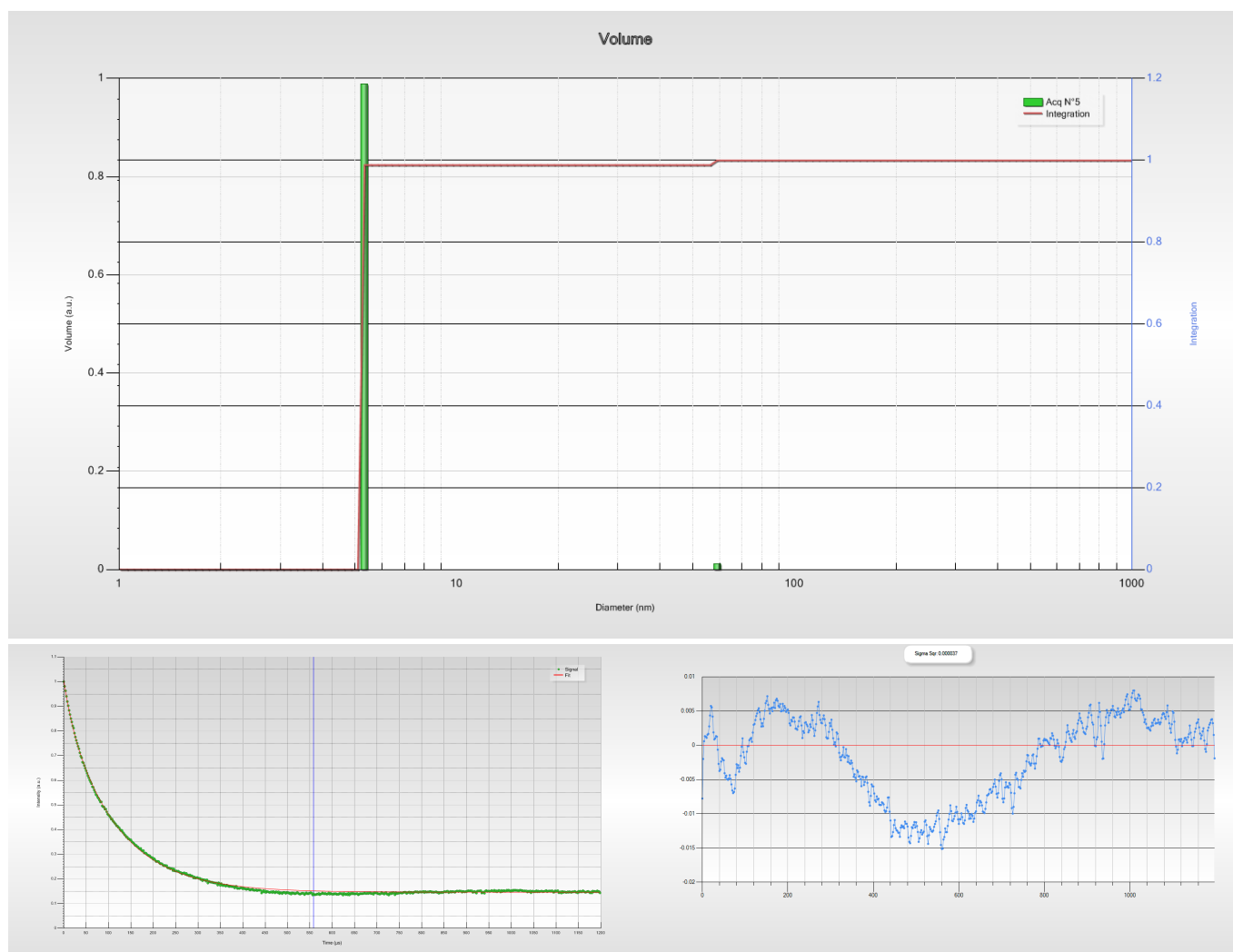
Dn 90%: 5.33 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
5.29	0.06	49128.27	92.94273E-012
59.26	0.87	4383.86	82.93554E-013

Dispersion datas

Size (nm)	Number
5.33	1



Dispersion statistics

Dv 10%: 5.33 nm
Mean Volume: 5.95 nm

Dv 50%: 5.33 nm

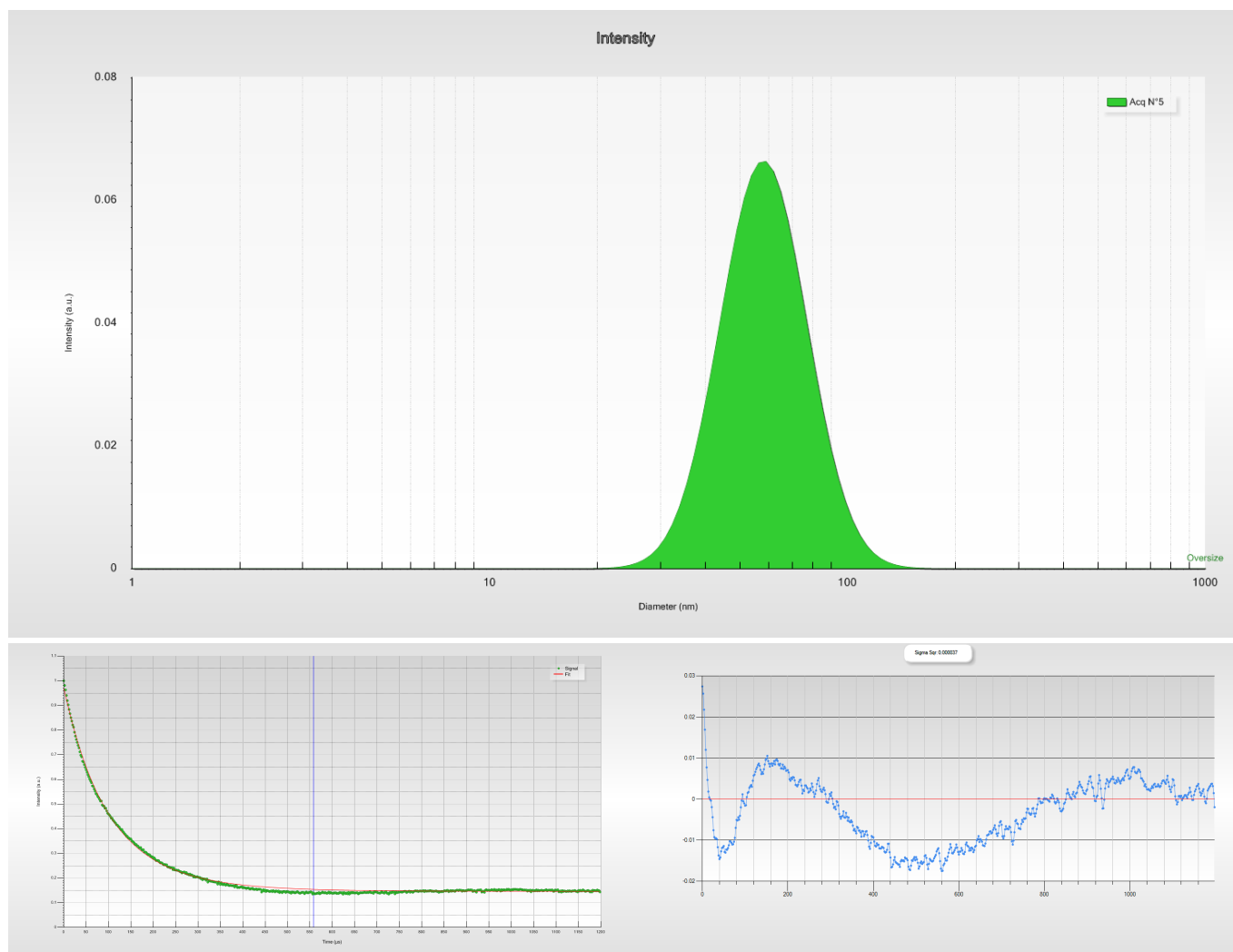
Dv 90%: 5.33 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
5.29	0.06	49128.27	92.94273E-012
59.26	0.87	4383.86	82.93554E-013

Dispersion datas

Size (nm)	Volume	Size (nm)	Volume
5.33	0.99	59.03	0.01

**Distribution statistics**

Di 10%: 40.78 nm
Mean Intensity: 60.34 nm
PDI : 0.32031

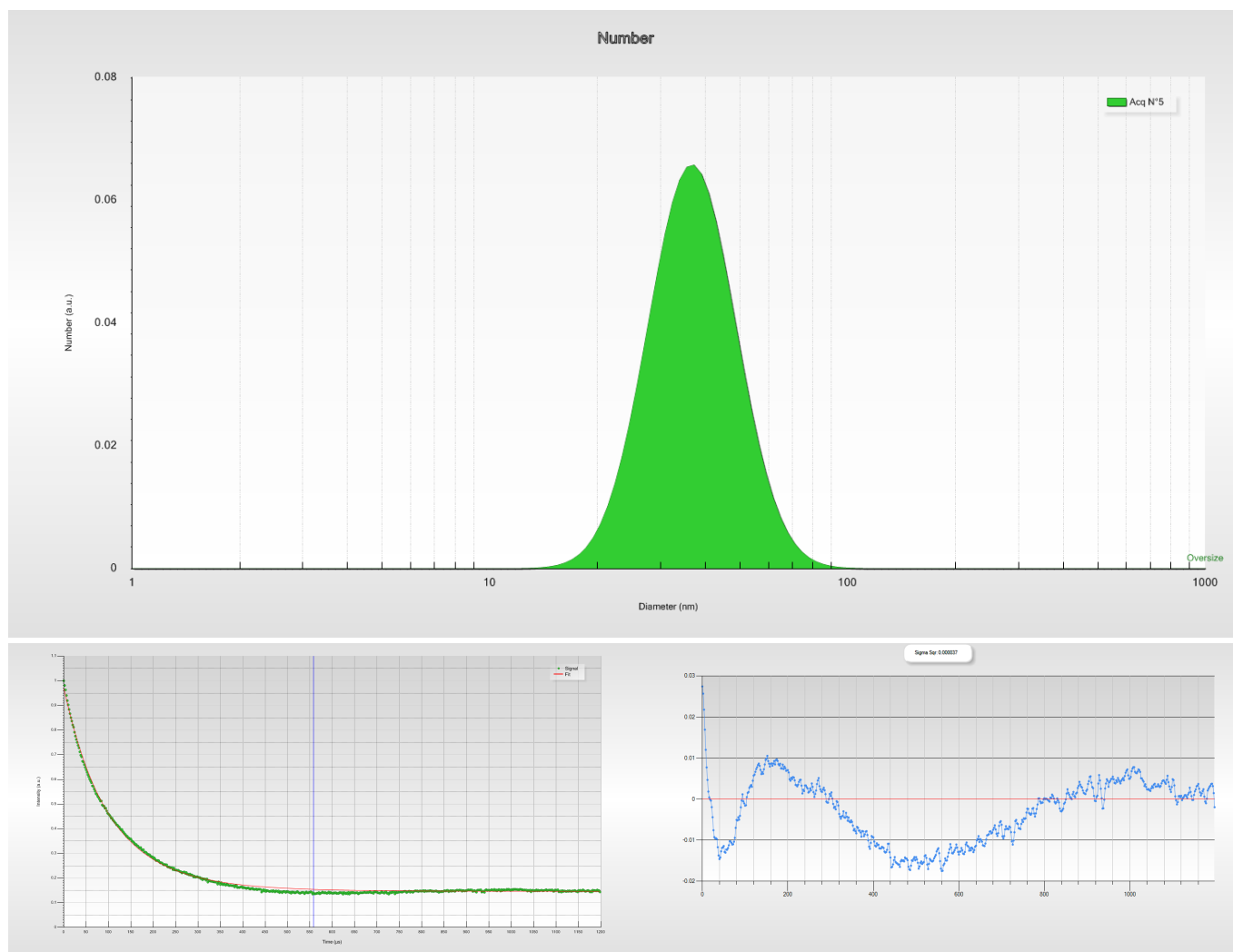
Di 50%: 59.03 nm

Di 90%: 81.59 nm

Std Dev: 28.3%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m²/s)
51.71	0.83	5023.82	95.04249E-013



Distribution statistics

Dn 10%: 25.68 nm
Mean Number: 38.14 nm
PDI : 0.32031

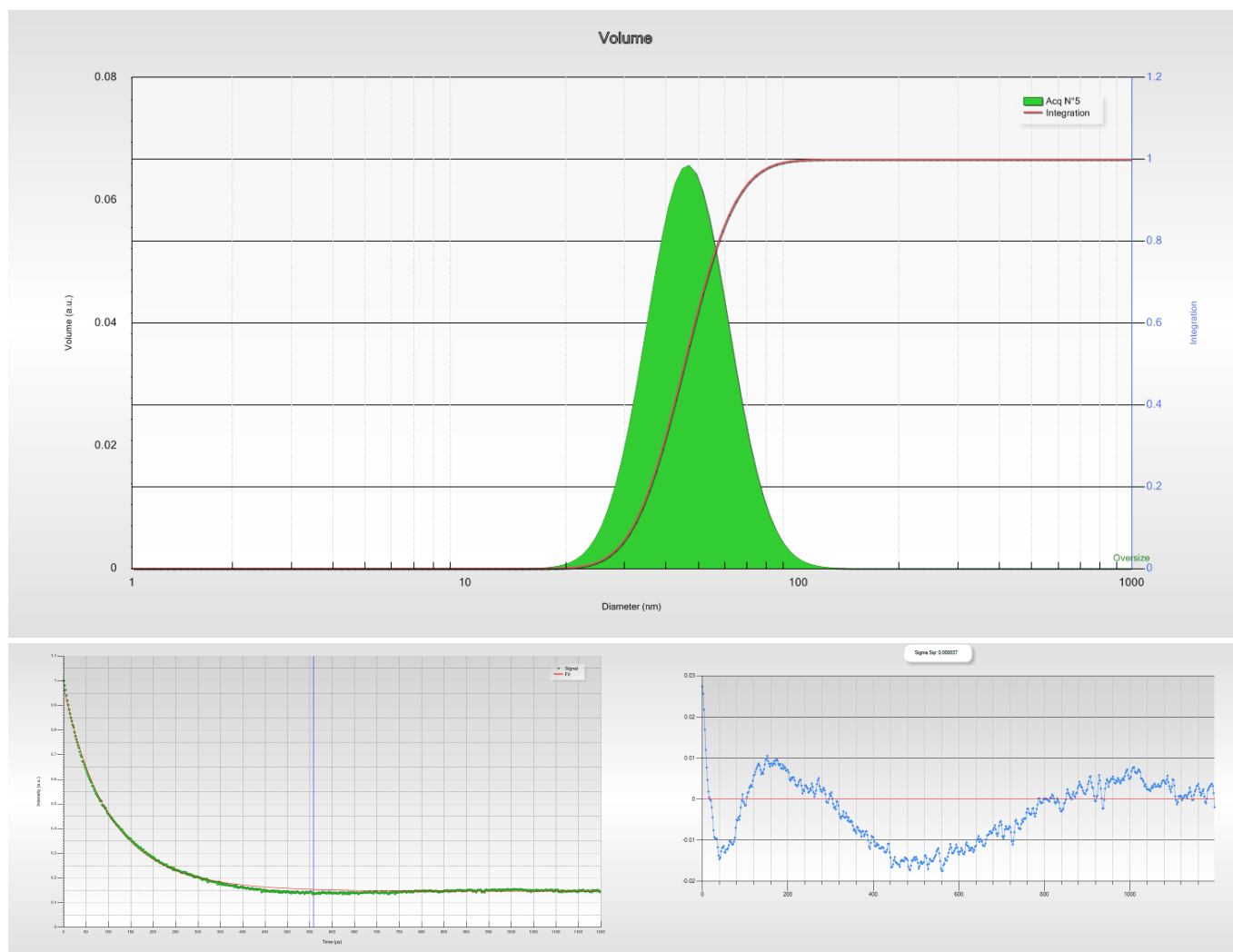
Dn 50%: 37.18 nm

Dn 90%: 51.39 nm

Std Dev: 28.3%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m²/s)
51.71	0.83	5023.82	95.04249E-013

**Distribution statistics**

Dv 10%: 32.36 nm
Mean Volume: 48.3 nm
PDI : 0.32031

Dv 50%: 46.85 nm

Dv 90%: 67.81 nm

Std Dev: 28.3%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m²/s)
51.71	0.83	5023.82	95.04249E-013