

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
Time limitation : 60 s
Temperature : 25 °C

Acquisitions : 5

Device Settings

Time interval	: 2 µs	Number of channels	: 600
Laser power	: 39.6 %	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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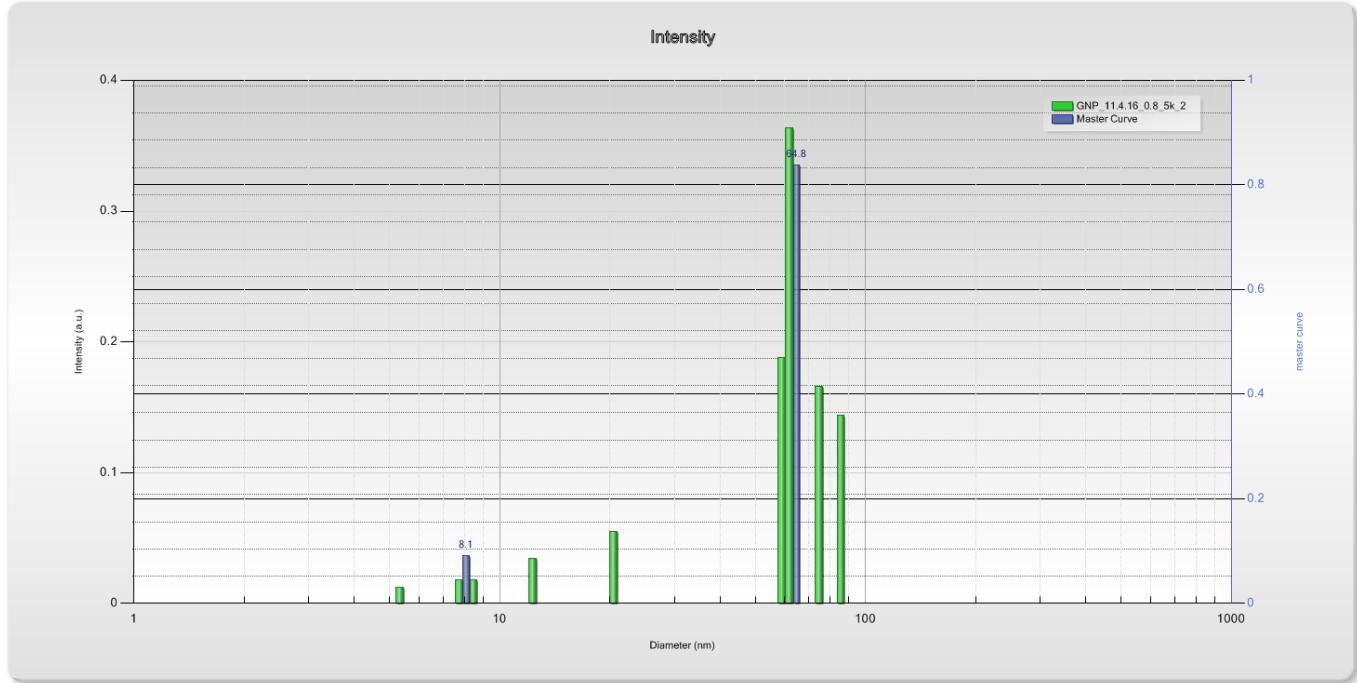
Algorithm

Pade Laplace	Cumulants
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Measurement

Average count rate : 2564 kcps
Number of rejected : 0

Duration : 00:05:17
Number of modified : 0



Dispersion statistics

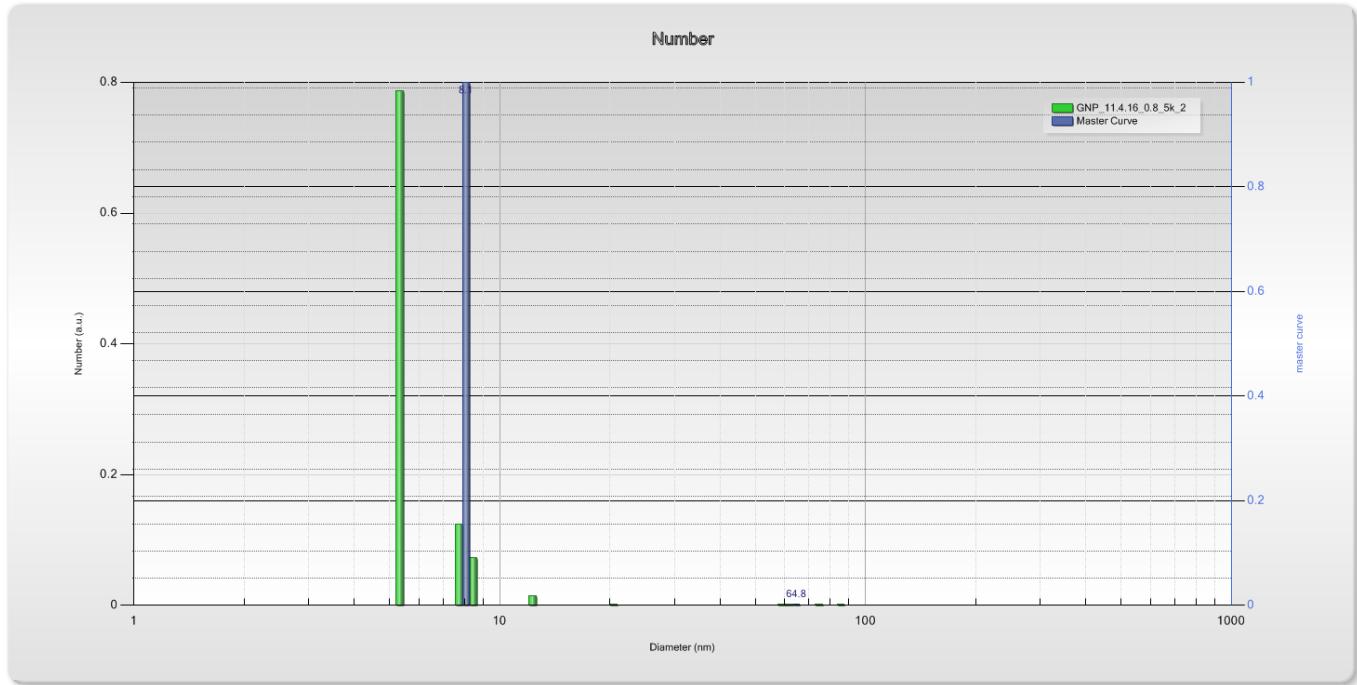
Di 10%: 20.38 nm

Di 50%: 61.83 nm

Di 90%: 85.45 nm

Dispersion data

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

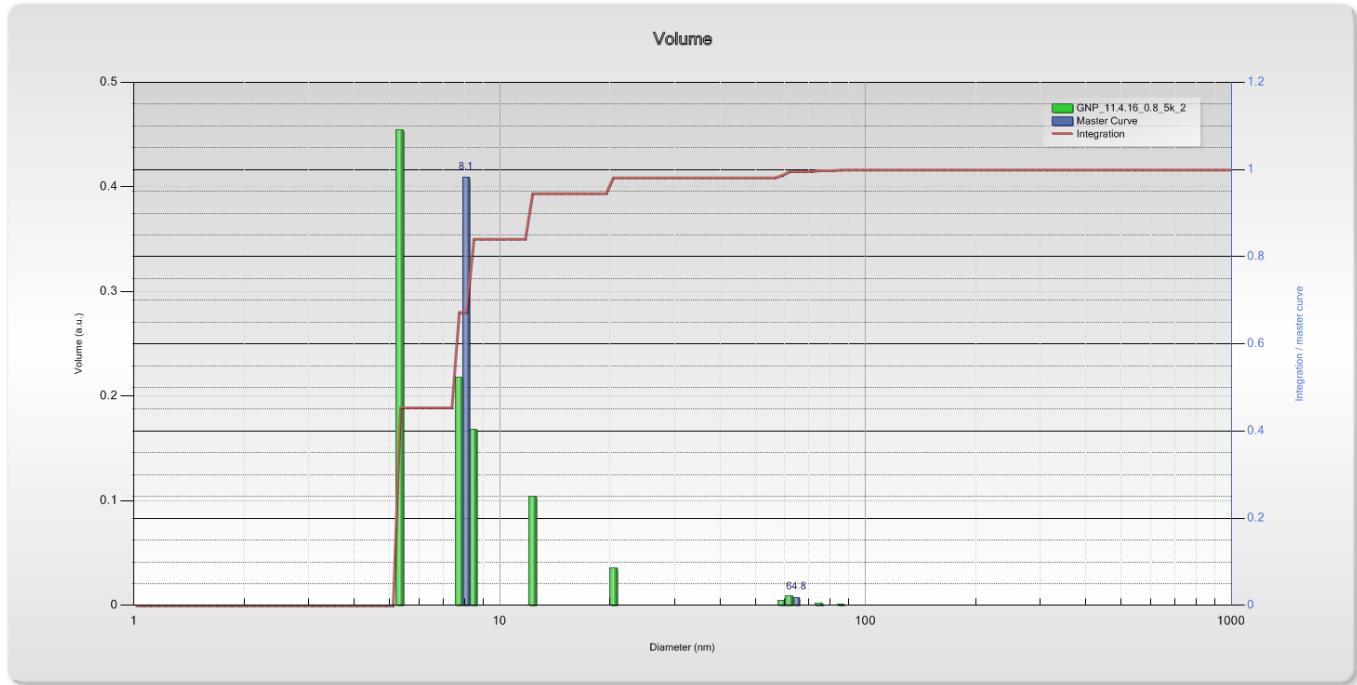
D_n 10%: 5.33 nm

D_n 50%: 5.33 nm

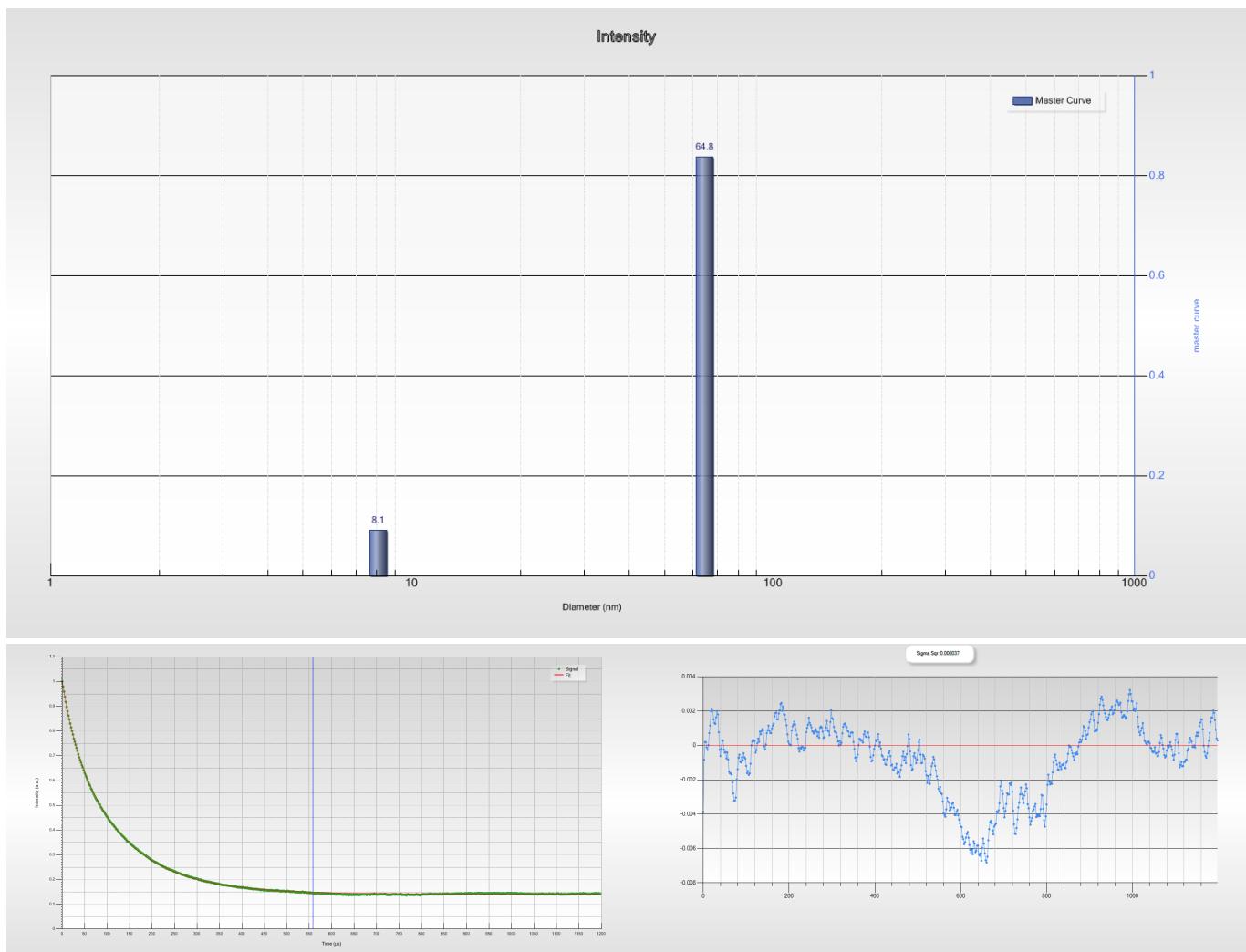
D_n 90%: 7.72 nm

Dispersion data

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

**Dispersion statistics****D_v 10%:** 5.33 nm**D_v 50%:** 7.72 nm**D_v 90%:** 12.26 nm**Dispersion data**

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

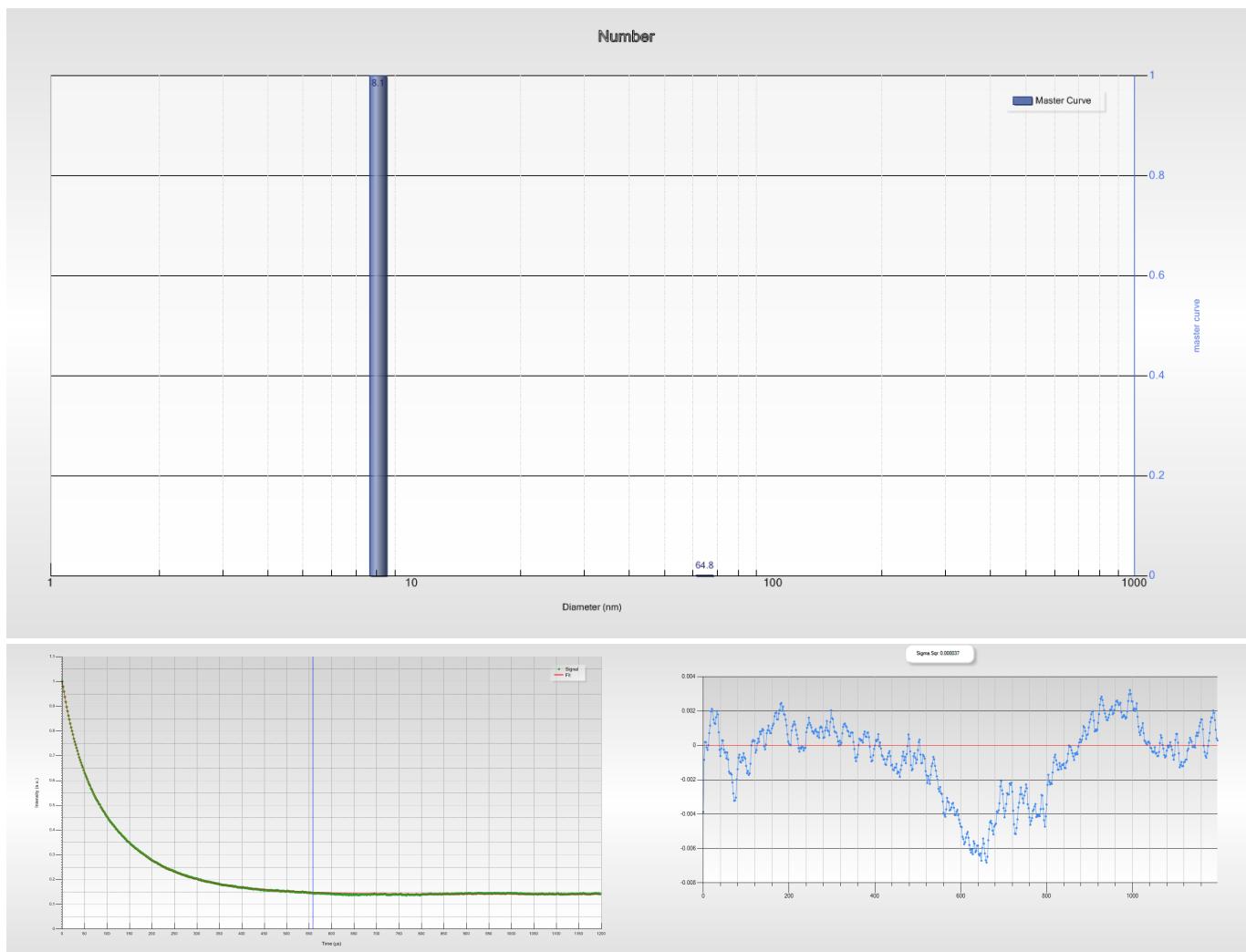
Di 10%: 64.75 nm **Di 50%:** 64.75 nm **Di 90%:** 64.75 nm
Mean Intensity: 59.21 nm

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 data

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

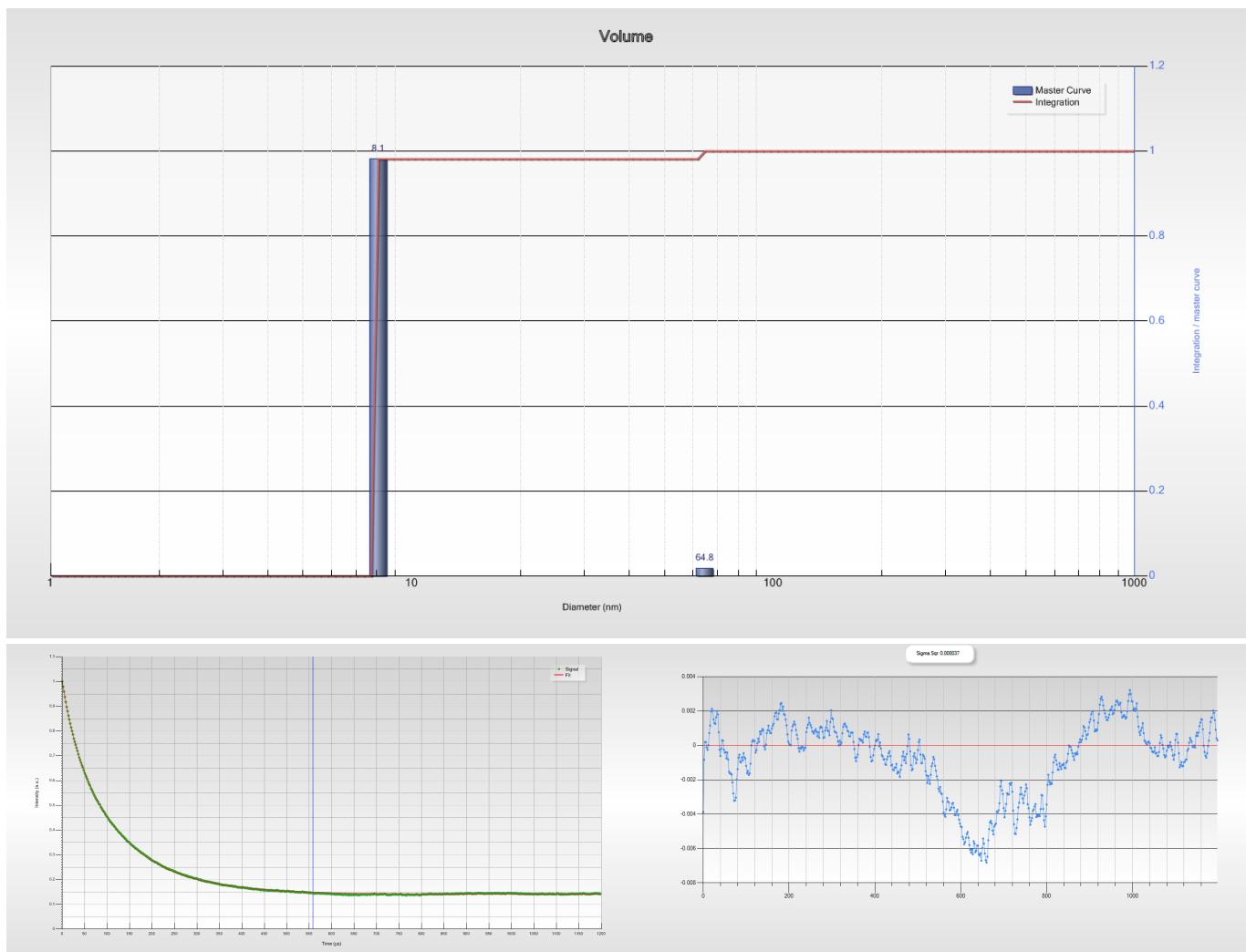
Dn 90%: 8.08 nm

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 data

Size (nm)	Number
8.08	1



Dispersion statistics

D_v 10%: 8.08 nm
Mean Volume: 9.13 nm

D_v 50%: 8.08 nm

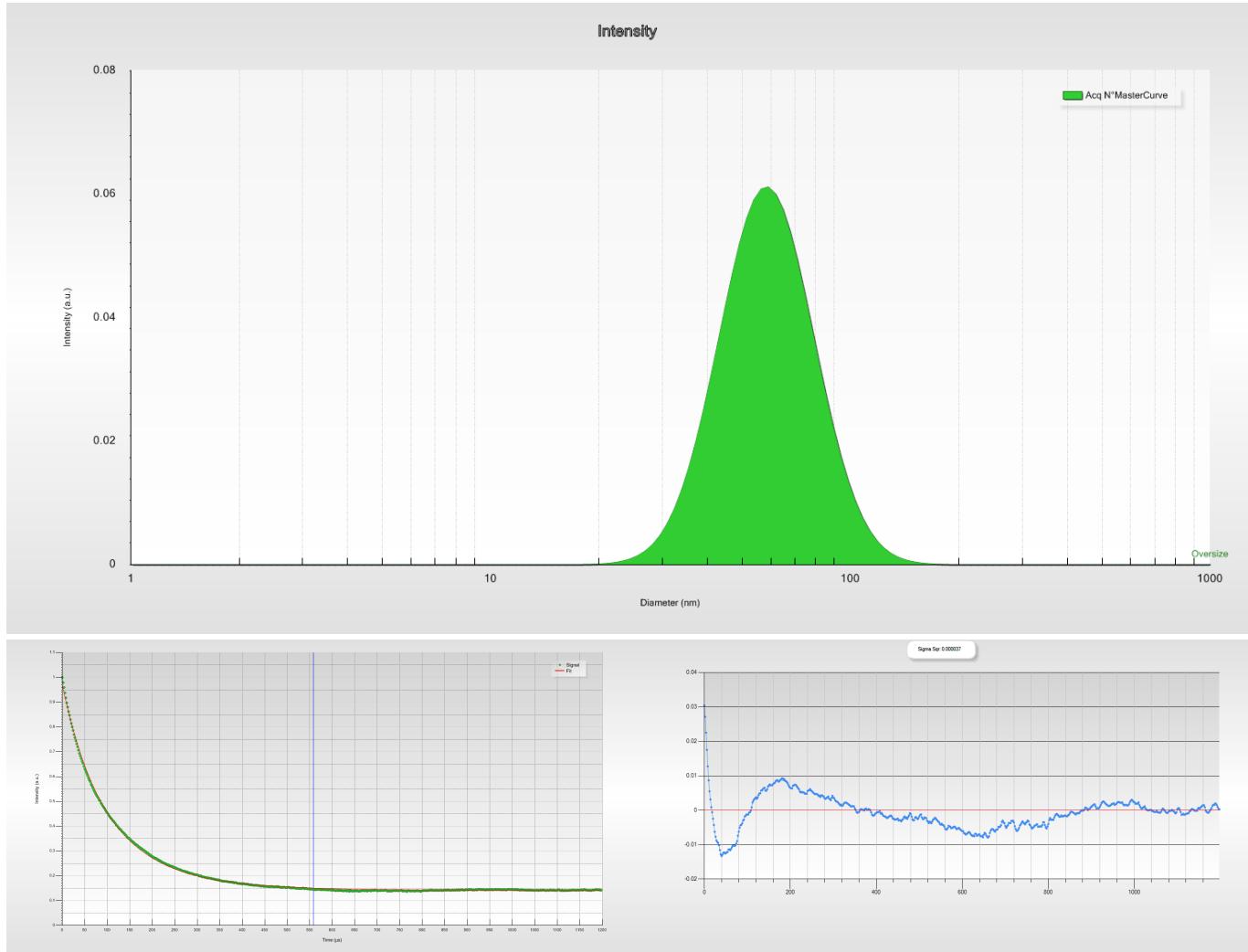
D_v 90%: 8.08 nm

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 data

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

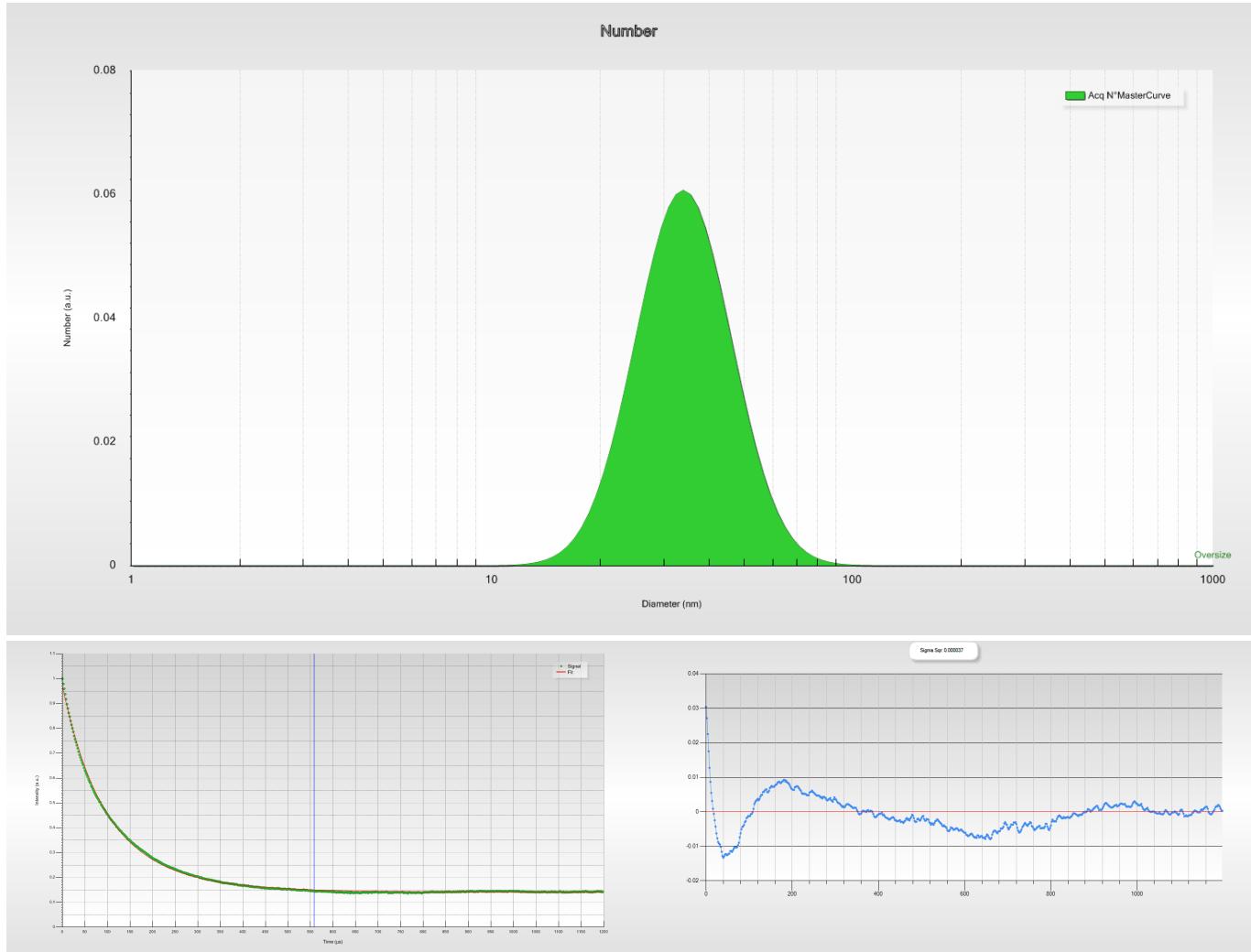


Distribution statistics

Di 10%: 38.94 nm	Di 50%: 59.03 nm	Di 90%: 85.45 nm
Mean Intensity: 61.02 nm		
PDI : 0.38008		Std Dev: 30.83%

Detected size(s)

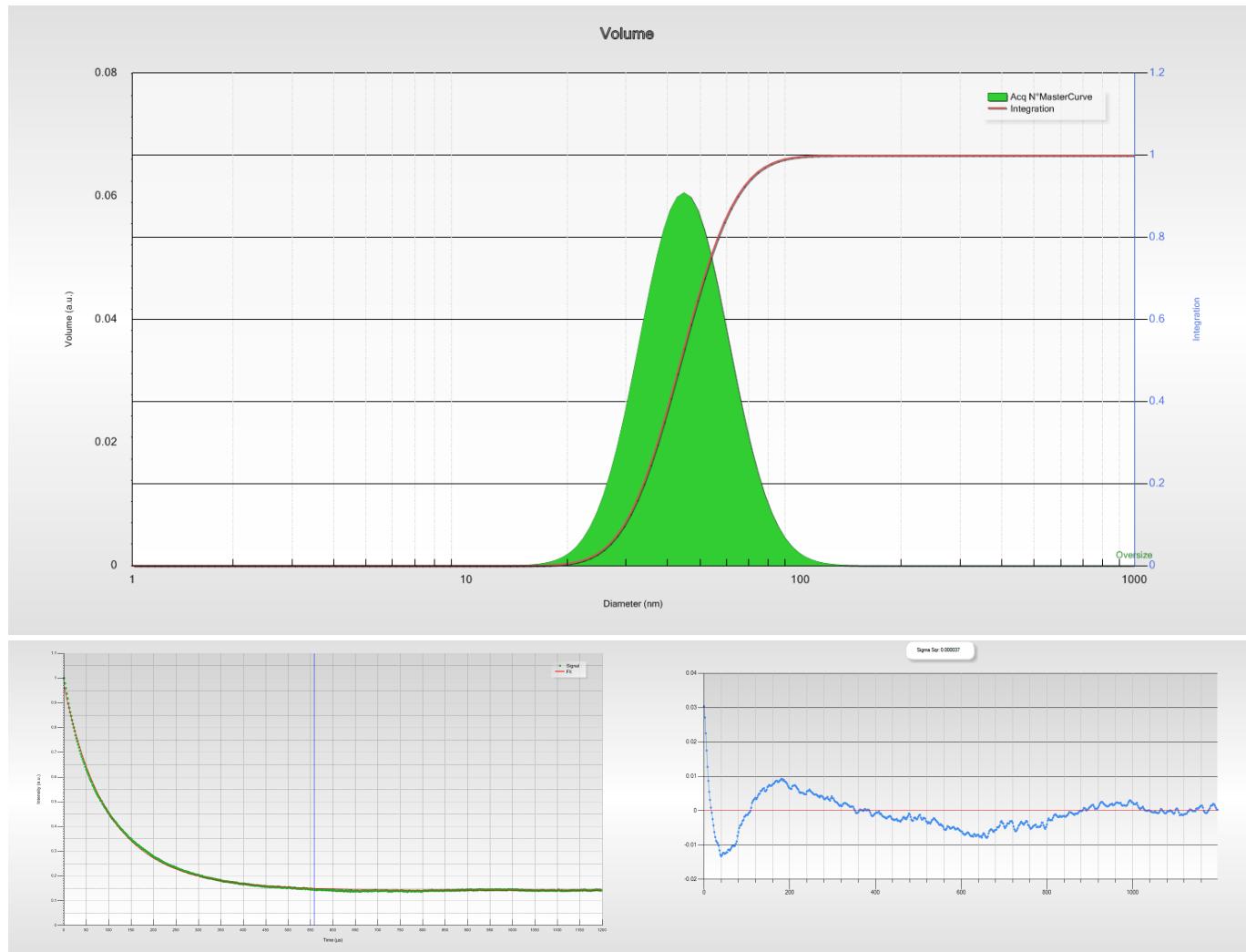
Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
50.88	0.83	5105.61	96.58992E-013

**Distribution statistics**

Dn 10%: 23.41 nm	Dn 50%: 33.89 nm	Dn 90%: 49.06 nm
Mean Number: 35.53 nm		
PDI : 0.38008		Std Dev: 30.83%

Detected size(s)

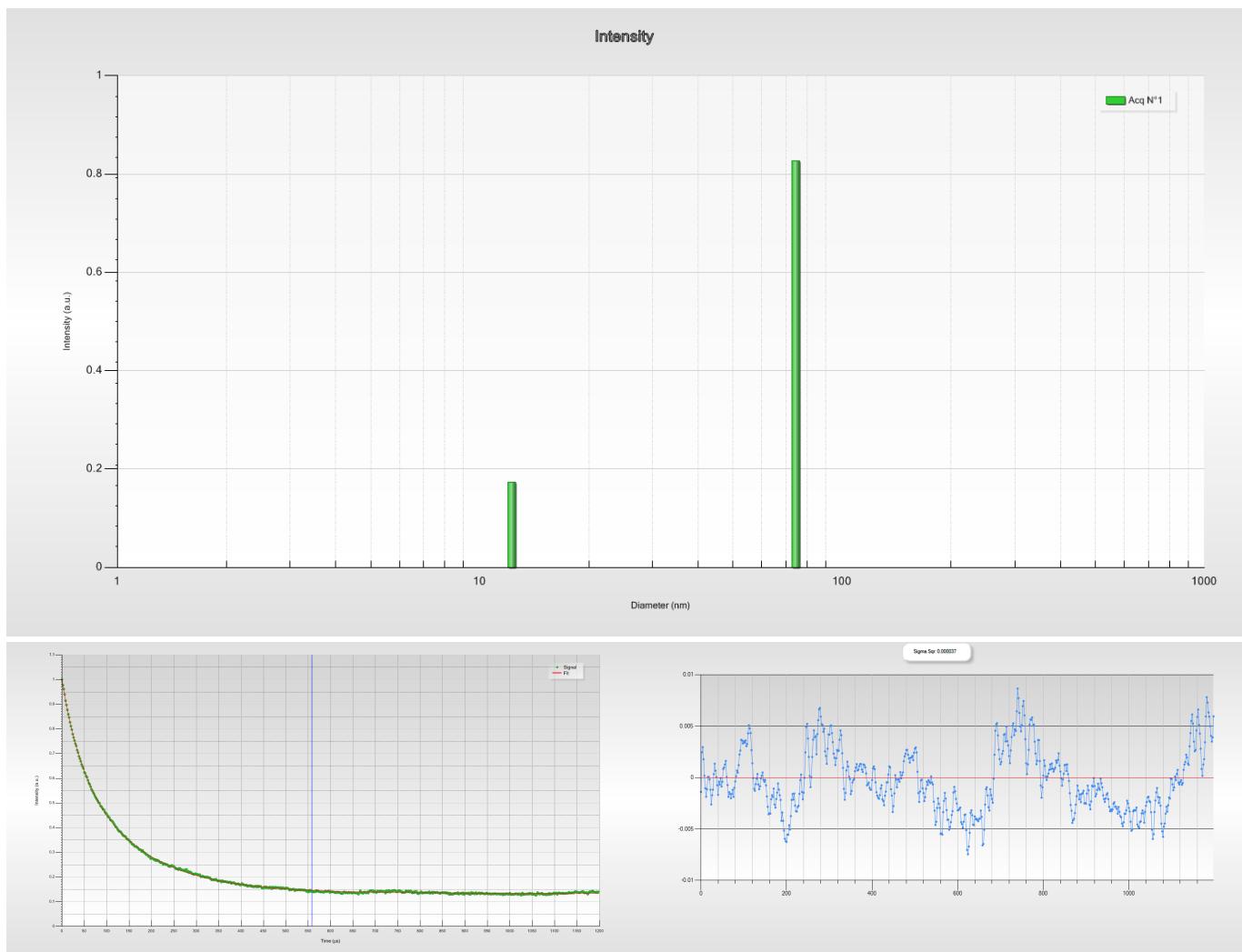
Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
50.88	0.83	5105.61	96.58992E-013

**Distribution statistics**

D_v 10%: 30.9 nm	D_v 50%: 44.73 nm	D_v 90%: 64.75 nm
Mean Volume: 46.91 nm		
PDI : 0.38008		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

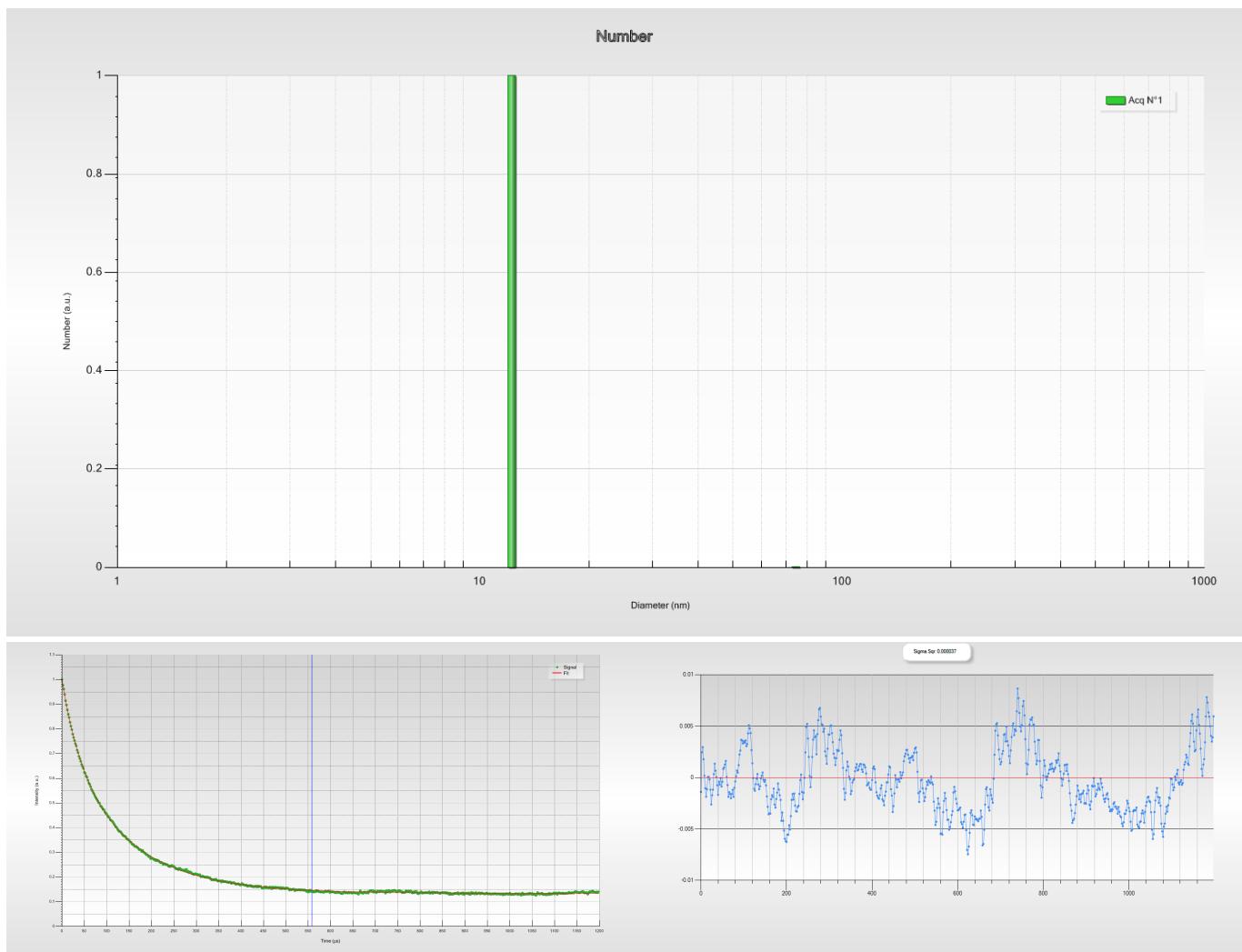
Di 90%: 74.39 nm

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 data

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



Dispersion statistics

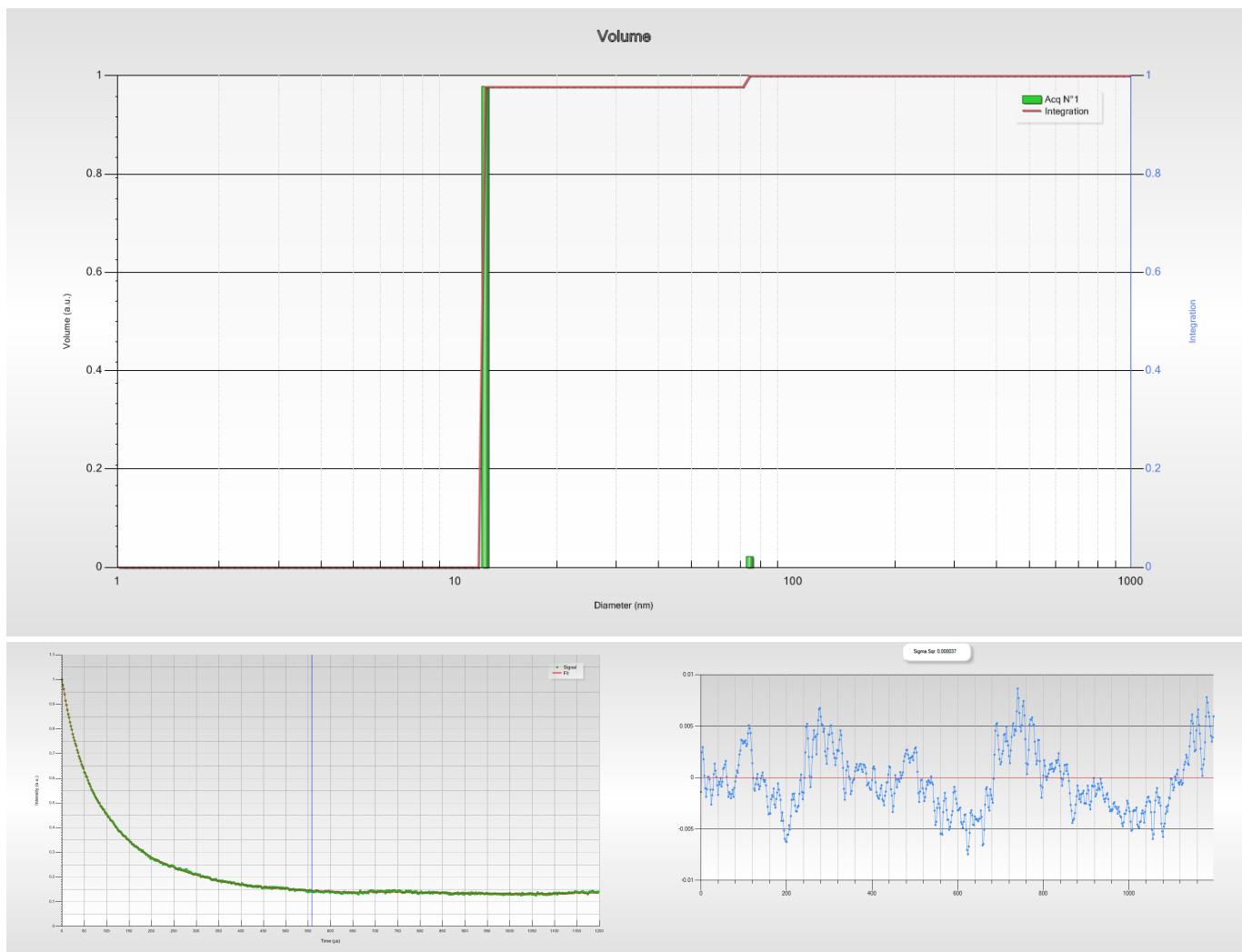
Dn 10%: 12.26 nm **Dn 50%:** 12.26 nm **Dn 90%:** 12.26 nm
Mean Number: 12.26 nm

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 data

Size (nm)	Number
12.26	1



Dispersion statistics

D_v 10%: 12.26 nm **D_v 50%:** 12.26 nm **D_v 90%:** 12.26 nm
Mean Volume: 13.64 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 data

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



Distribution statistics

Di 10%: 38.94 nm **Di 50%:** 61.83 nm **Di 90%:** 93.73 nm
Mean Intensity: 64.64 nm **Std Dev:** 35.38%
PDI : 0.50072

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
51.05	0.83	5089.29	96.28107E-013

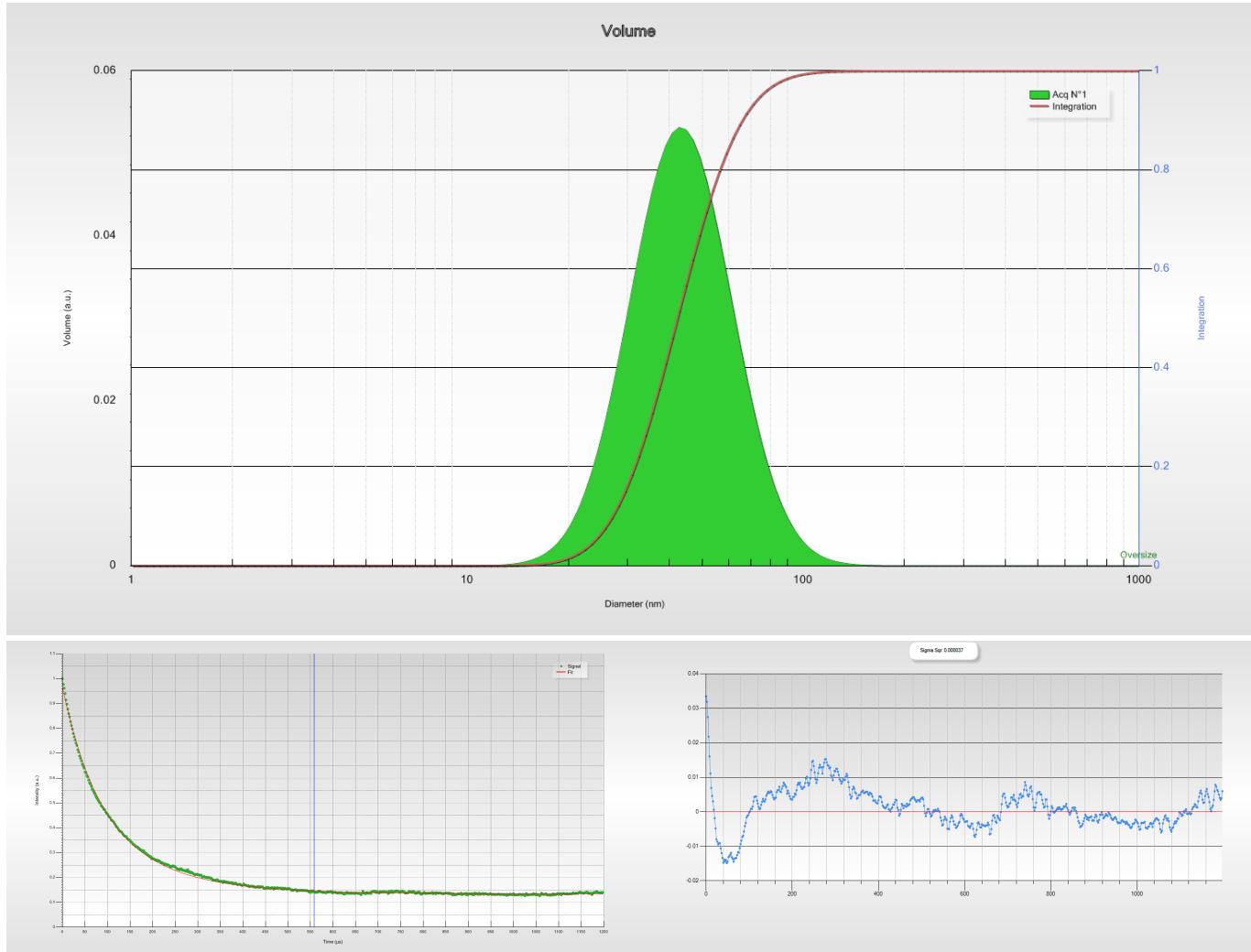


Distribution statistics

Dn 10%: 19.46 nm **Dn 50%:** 29.5 nm **Dn 90%:** 46.85 nm
Mean Number: 31.98 nm **Std Dev:** 35.38%
PDI : 0.50072

Detected size(s)

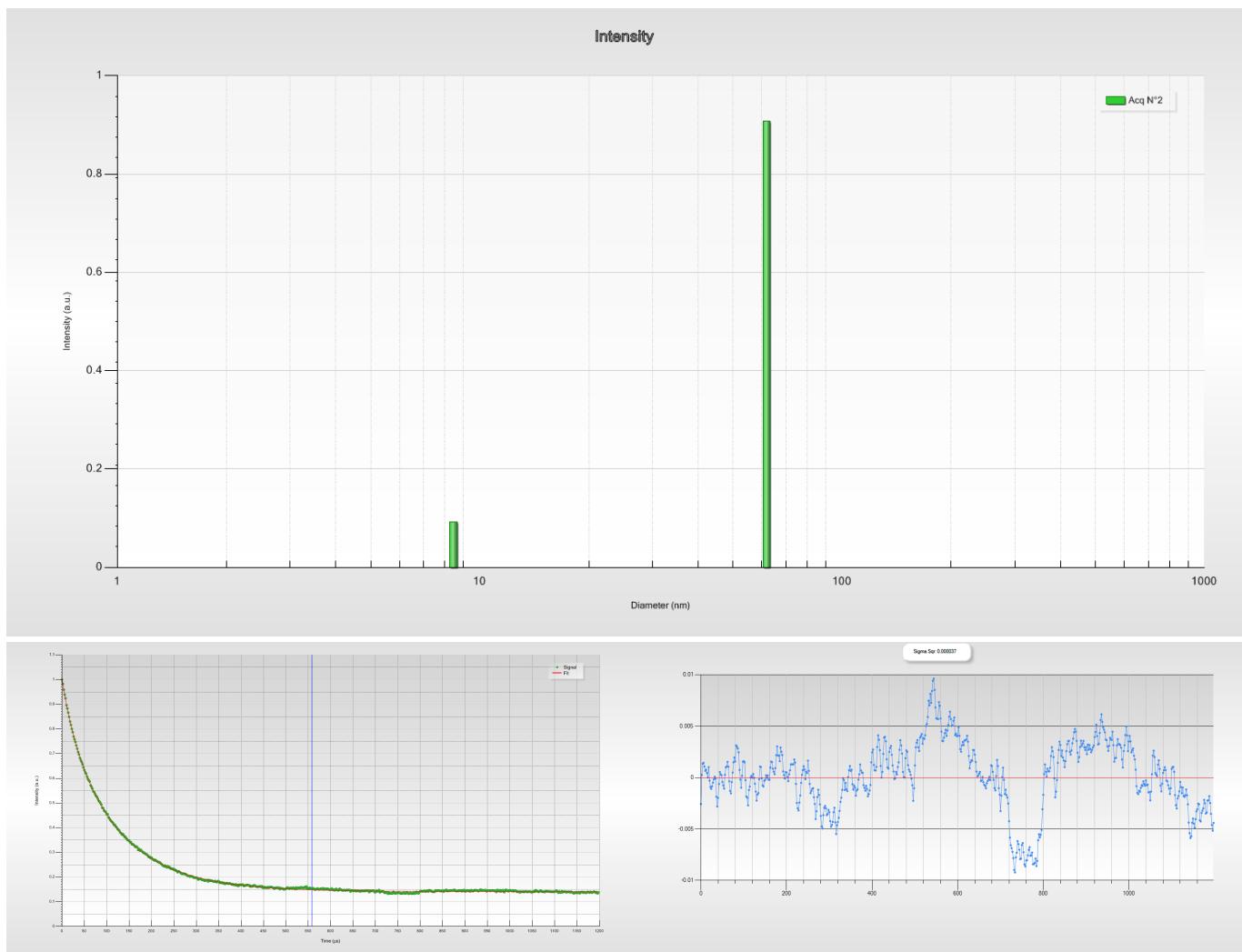
Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
51.05	0.83	5089.29	96.28107E-013

**Distribution statistics**

D_v 10%: 28.17 nm	D_v 50%: 42.71 nm	D_v 90%: 67.81 nm
Mean Volume: 45.88 nm		
PDI : 0.50072		Std Dev: 35.38%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
51.05	0.83	5089.29	96.28107E-013



Dispersion statistics

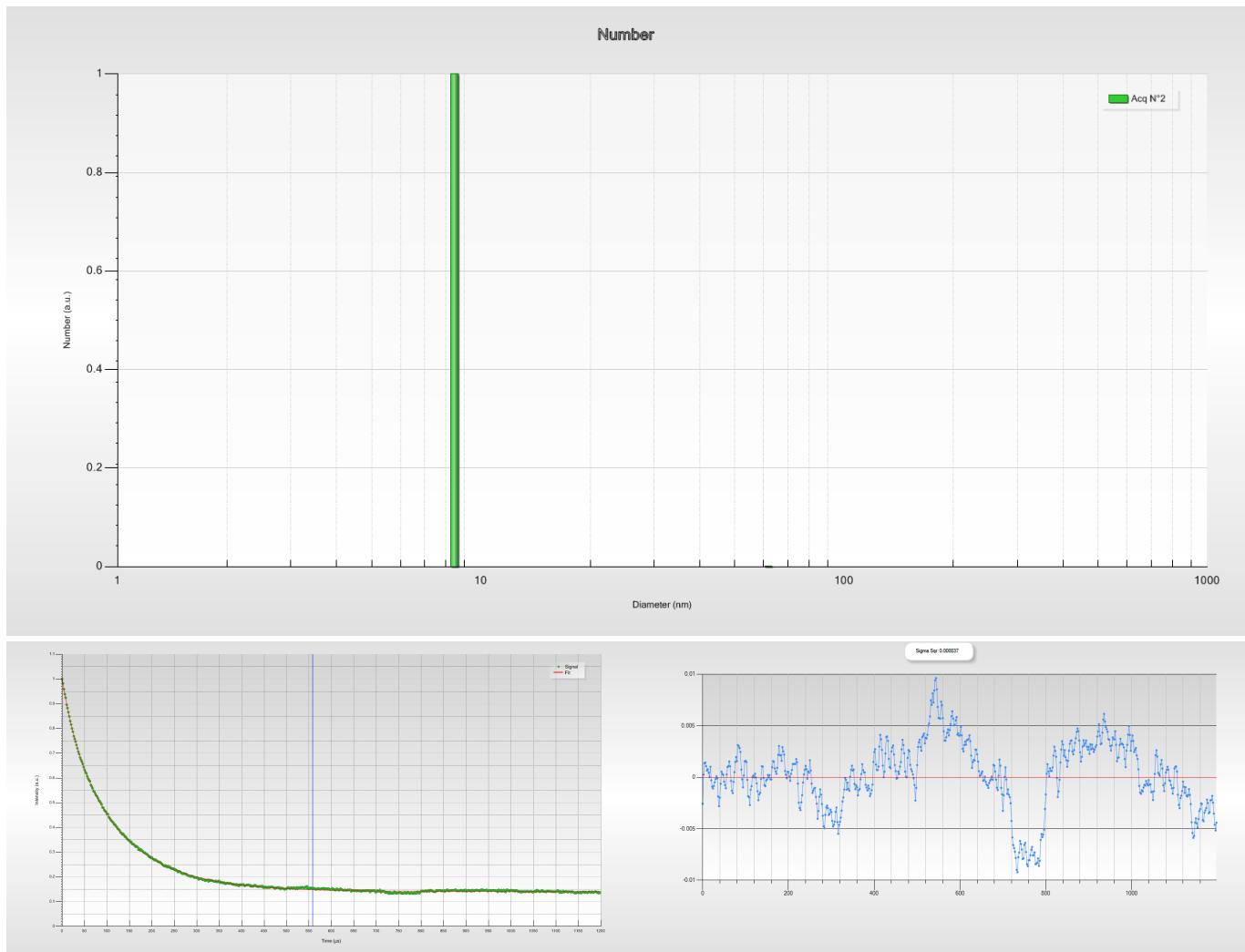
Di 10%: 61.83 nm **Di 50%:** 61.83 nm **Di 90%:** 61.83 nm
Mean Intensity: 56.92 nm

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 data

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

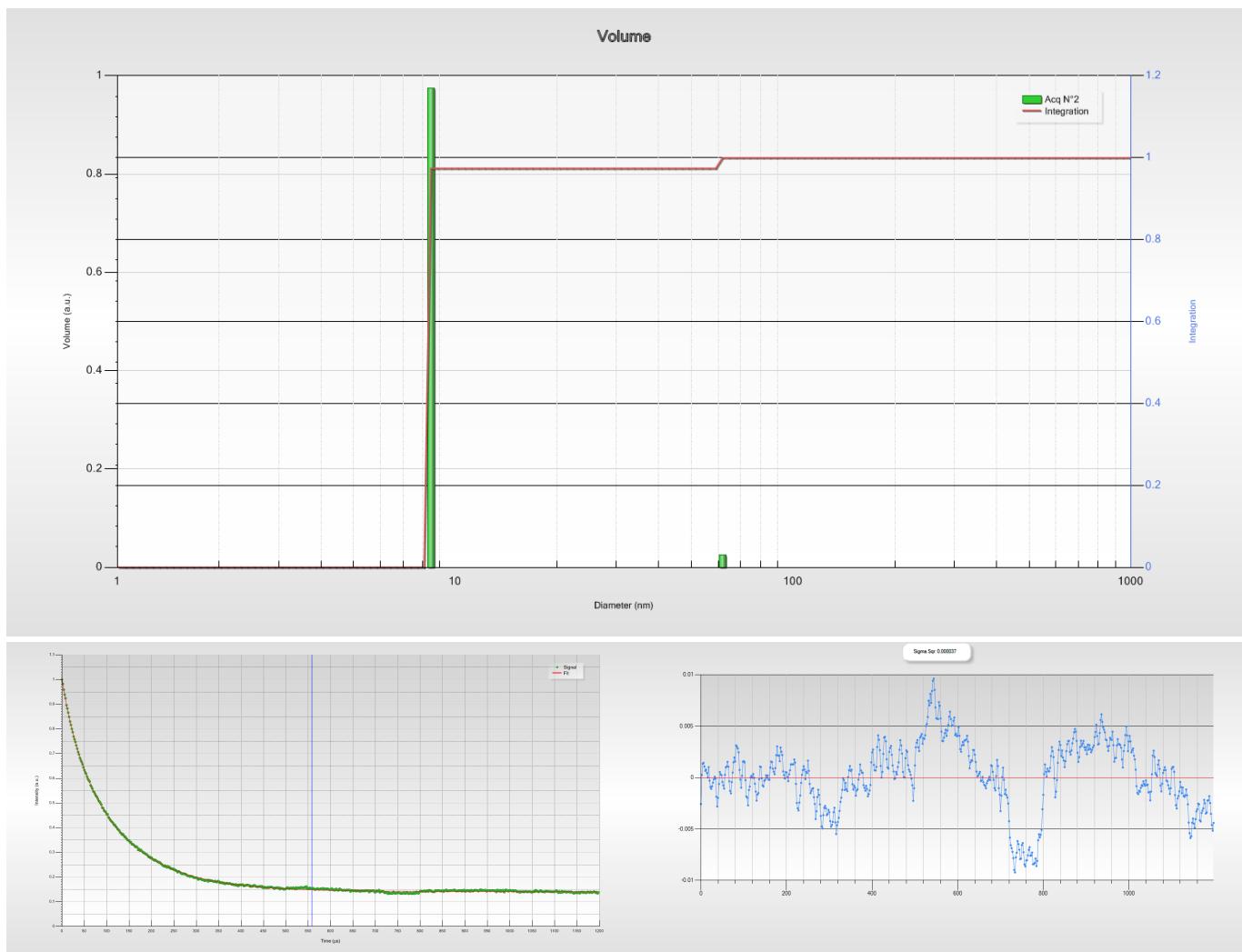
Dn 90%: 8.47 nm

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 data

Size (nm)	Number
8.47	1



Dispersion statistics

D_v 10%: 8.47 nm
Mean Volume: 9.84 nm

D_v 50%: 8.47 nm

D_v 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 data

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

**Distribution statistics**

Di 10%: 38.94 nm	Di 50%: 59.03 nm	Di 90%: 85.45 nm
Mean Intensity: 60.23 nm		
PDI : 0.35488		Std Dev: 29.79%

Detected size(s)

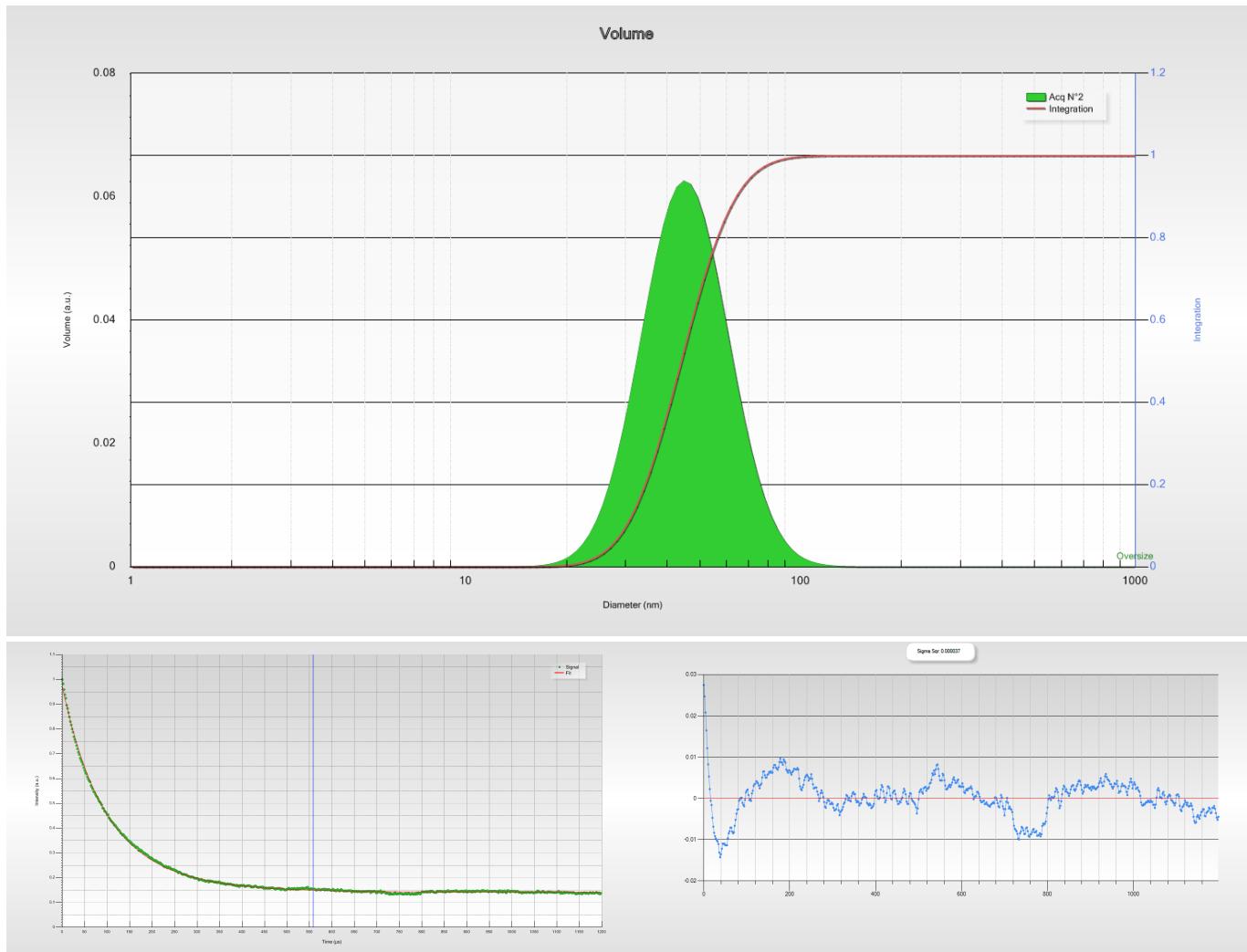
Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
50.81	0.83	5113.22	96.7339E-013

**Distribution statistics**

Dn 10%: 23.41 nm	Dn 50%: 35.5 nm	Dn 90%: 51.39 nm
Mean Number: 36.3 nm		
PDI : 0.35488		Std Dev: 29.79%

Detected size(s)

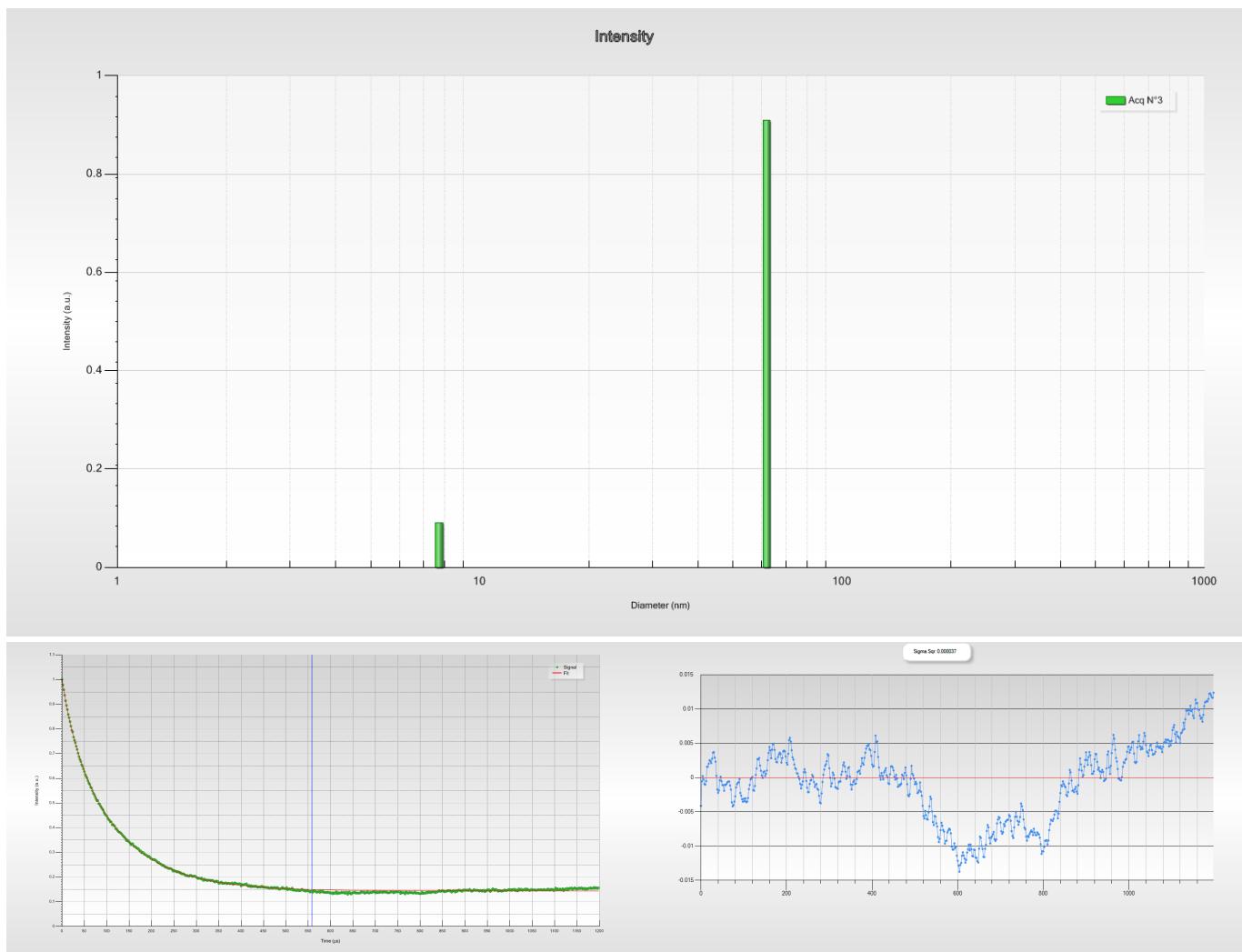
Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
50.81	0.83	5113.22	96.7339E-013

**Distribution statistics**

D_v 10%: 30.9 nm	D_v 50%: 44.73 nm	D_v 90%: 64.75 nm
Mean Volume: 47.09 nm		
PDI : 0.35488		Std Dev: 29.79%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
50.81	0.83	5113.22	96.7339E-013



Dispersion statistics

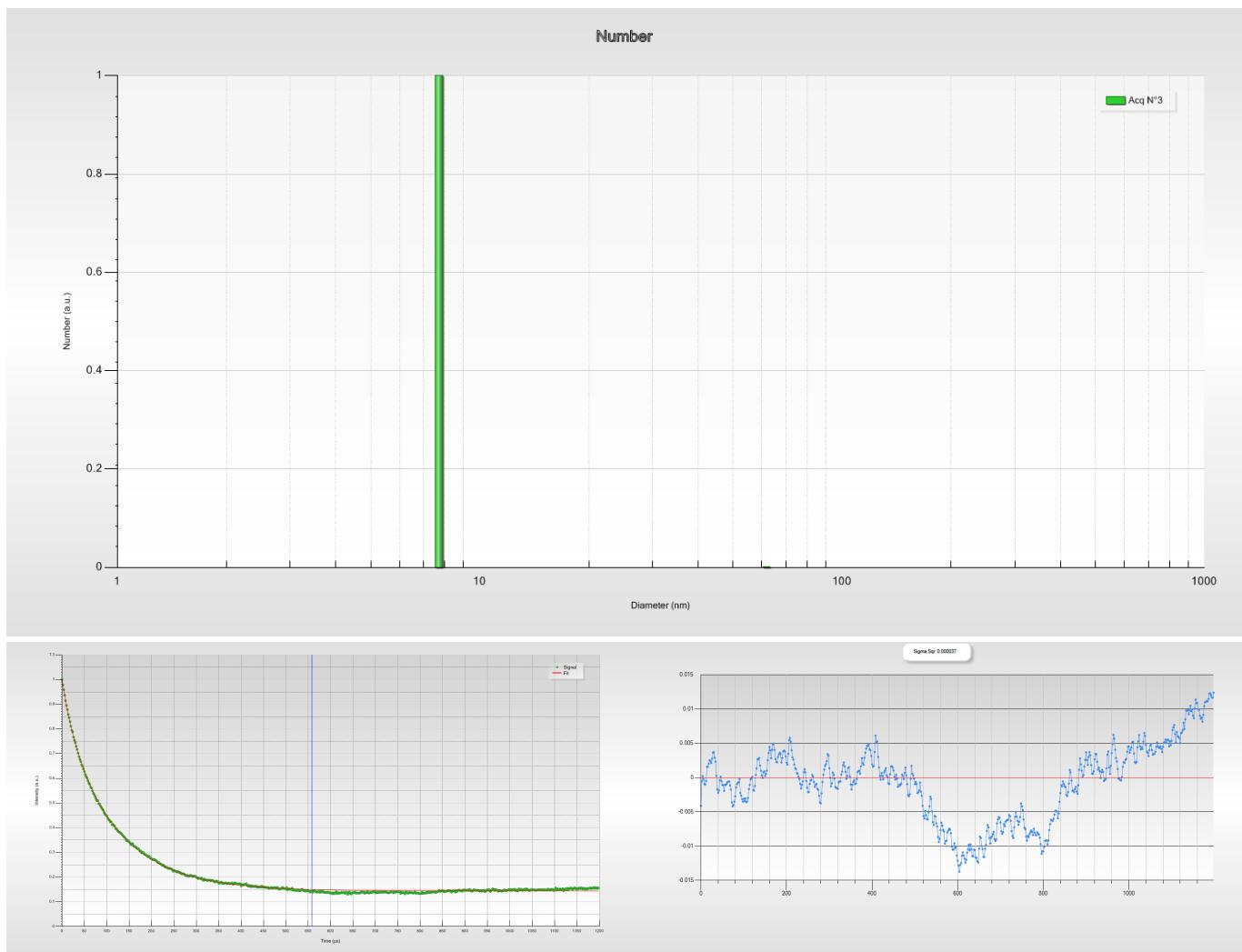
Di 10%: 61.83 nm **Di 50%:** 61.83 nm **Di 90%:** 61.83 nm
Mean Intensity: 56.92 nm

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 data

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

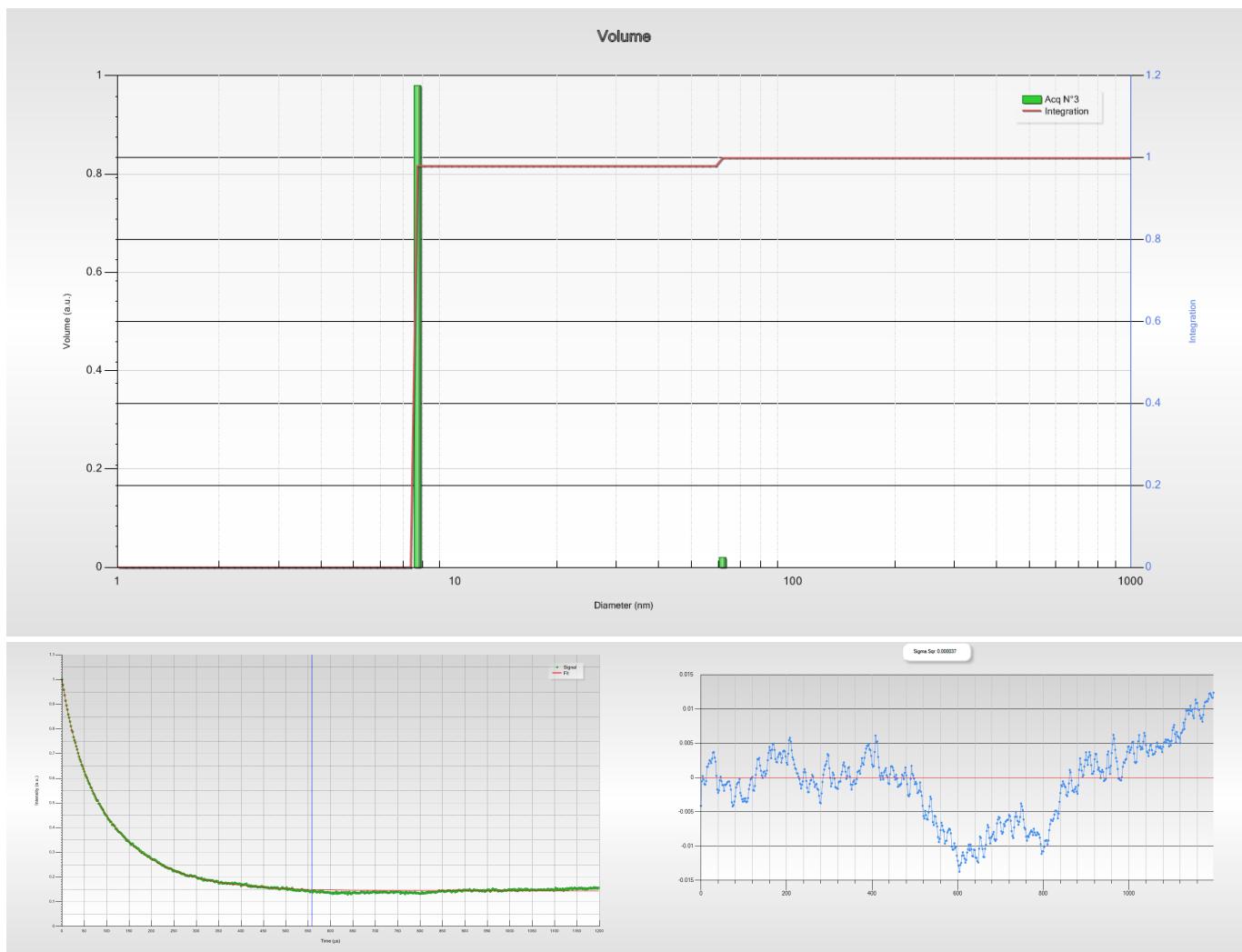
Dn 90%: 7.72 nm

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 data

Size (nm)	Number
7.72	1



Dispersion statistics

D_v 10%: 7.72 nm
Mean Volume: 8.8 nm

D_v 50%: 7.72 nm

D_v 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 data

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

**Distribution statistics**

Di 10%: 38.94 nm	Di 50%: 56.36 nm	Di 90%: 81.59 nm
Mean Intensity: 59.09 nm		
PDI : 0.37845		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

**Distribution statistics**

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

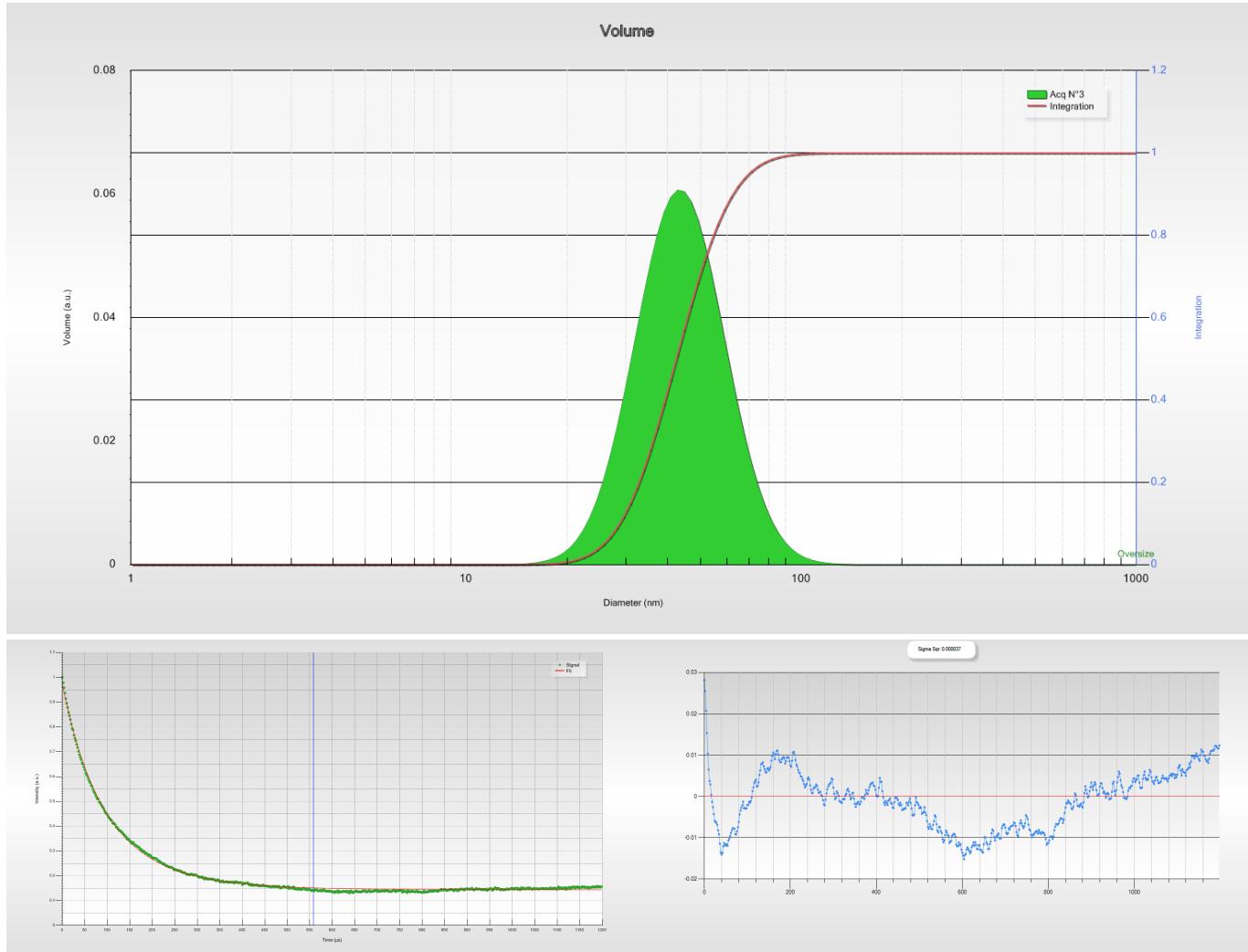
Dn 50%: 32.36 nm

Dn 90%: 49.06 nm

Std Dev: 30.76%

Detected size(s)

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

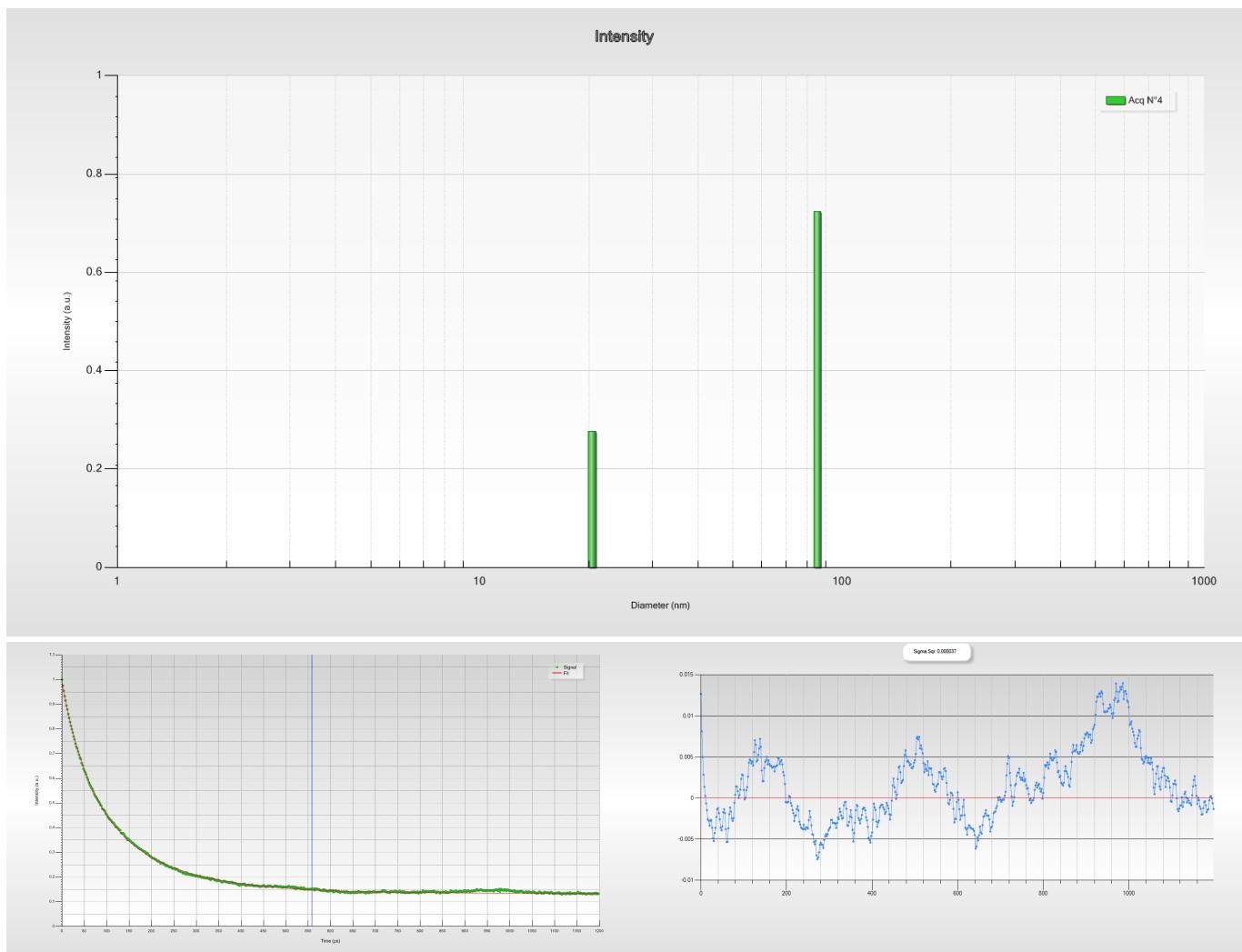


Distribution statistics

D_v 10%: 29.5 nm	D_v 50%: 42.71 nm	D_v 90%: 64.75 nm
Mean Volume: 45.45 nm		
PDI : 0.37845		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

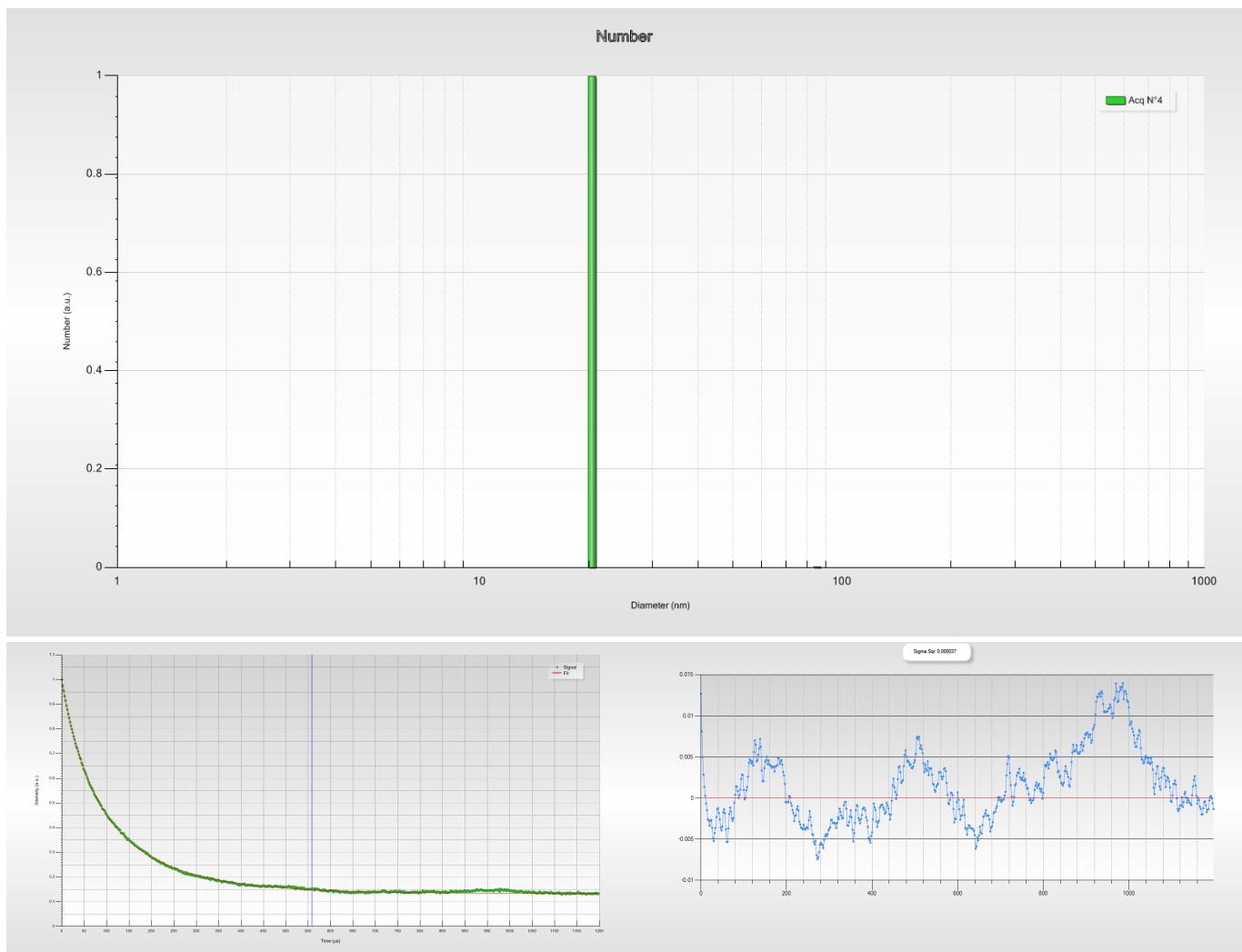
Di 10%: 20.38 nm **Di 50%:** 85.45 nm **Di 90%:** 85.45 nm
Mean Intensity: 67.51 nm

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 data

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



Dispersion statistics

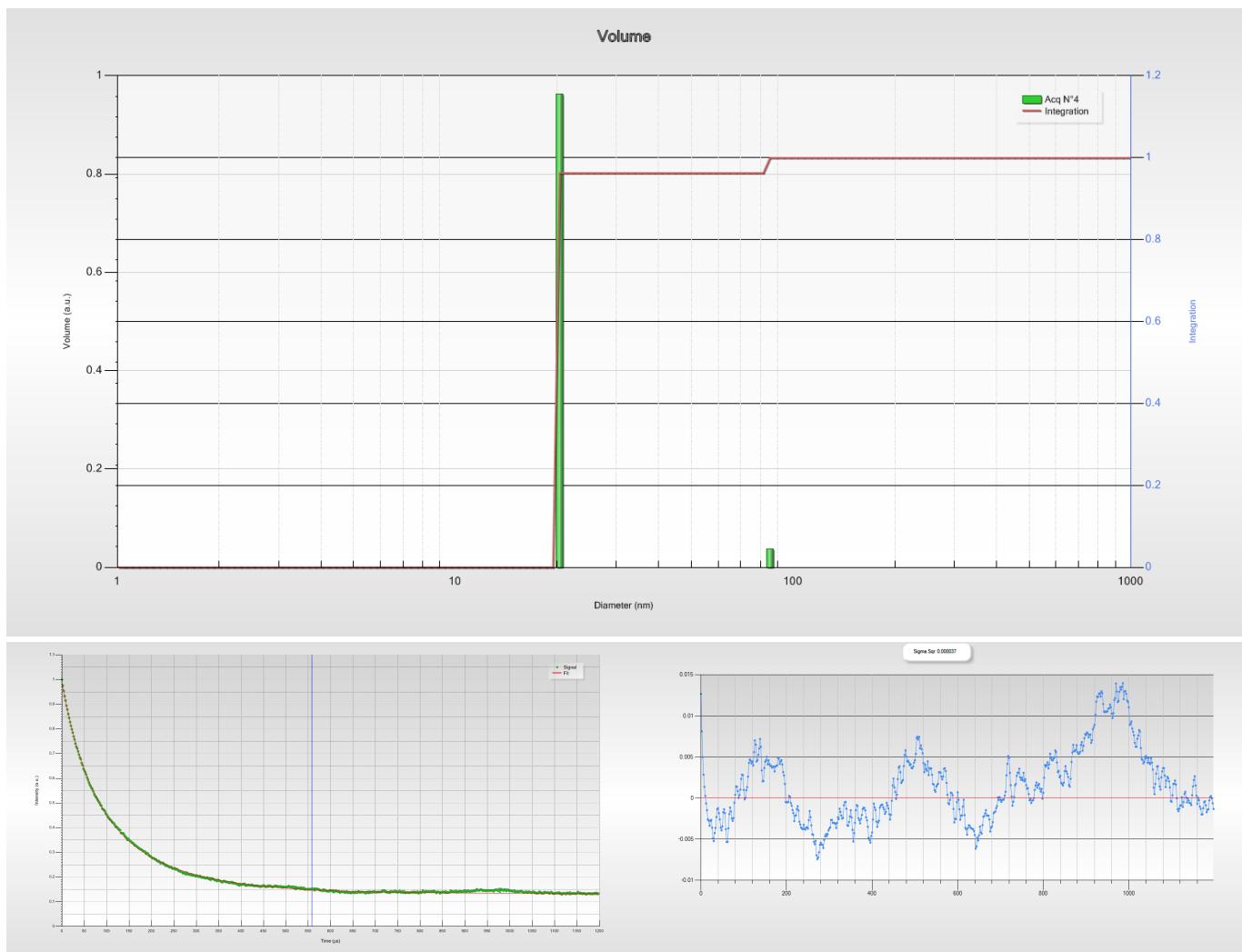
Dn 10%: 20.38 nm **Dn 50%:** 20.38 nm **Dn 90%:** 20.38 nm
Mean Number: 20.42 nm

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 data

Size (nm)	Number
20.38	1



Dispersion statistics

D_v 10%: 20.38 nm
Mean Volume: 22.8 nm

D_v 50%: 20.38 nm

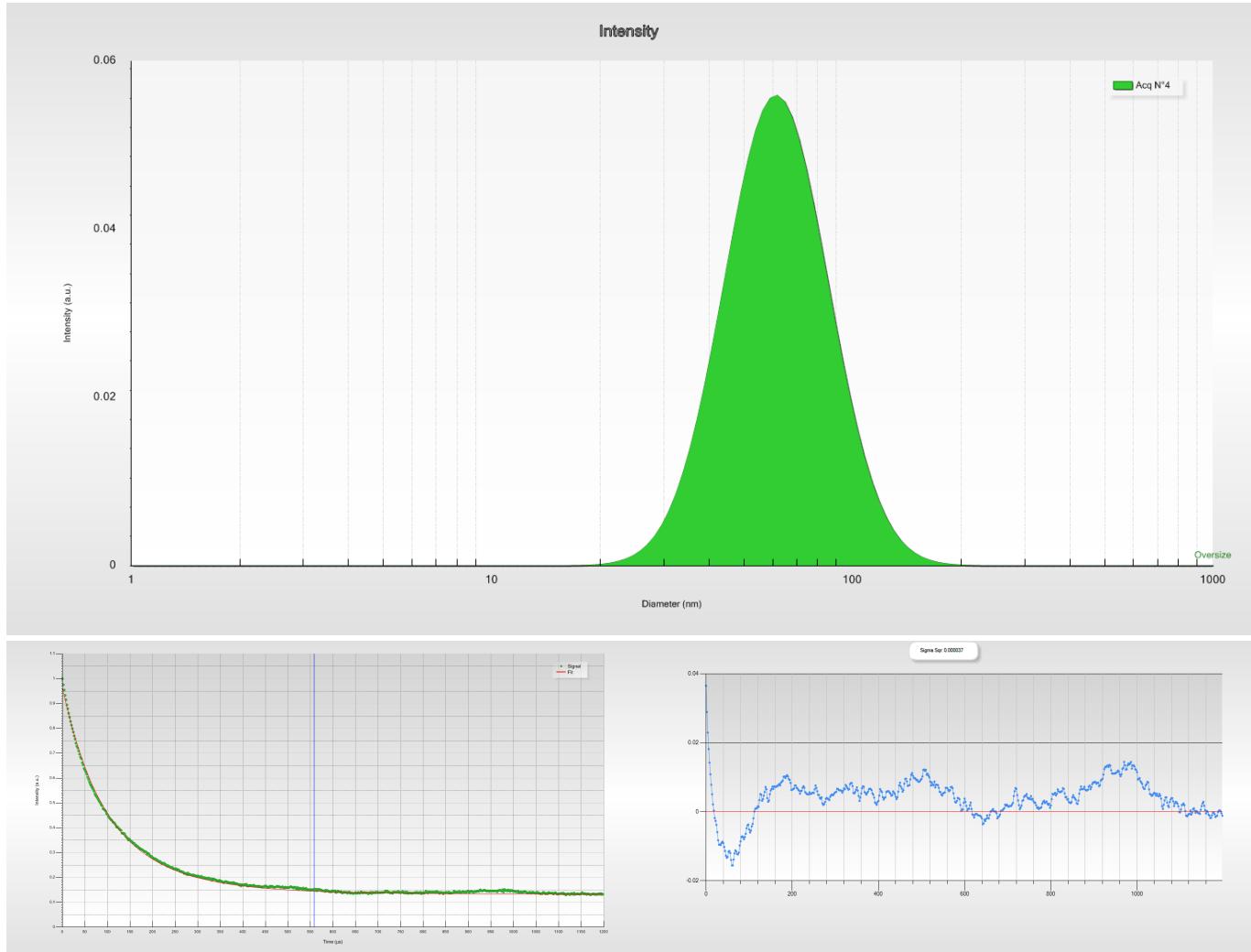
D_v 90%: 20.38 nm

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 data

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



Distribution statistics

Di 10%: 40.78 nm	Di 50%: 61.83 nm	Di 90%: 93.73 nm
Mean Intensity: 64.75 nm		
PDI : 0.45961		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

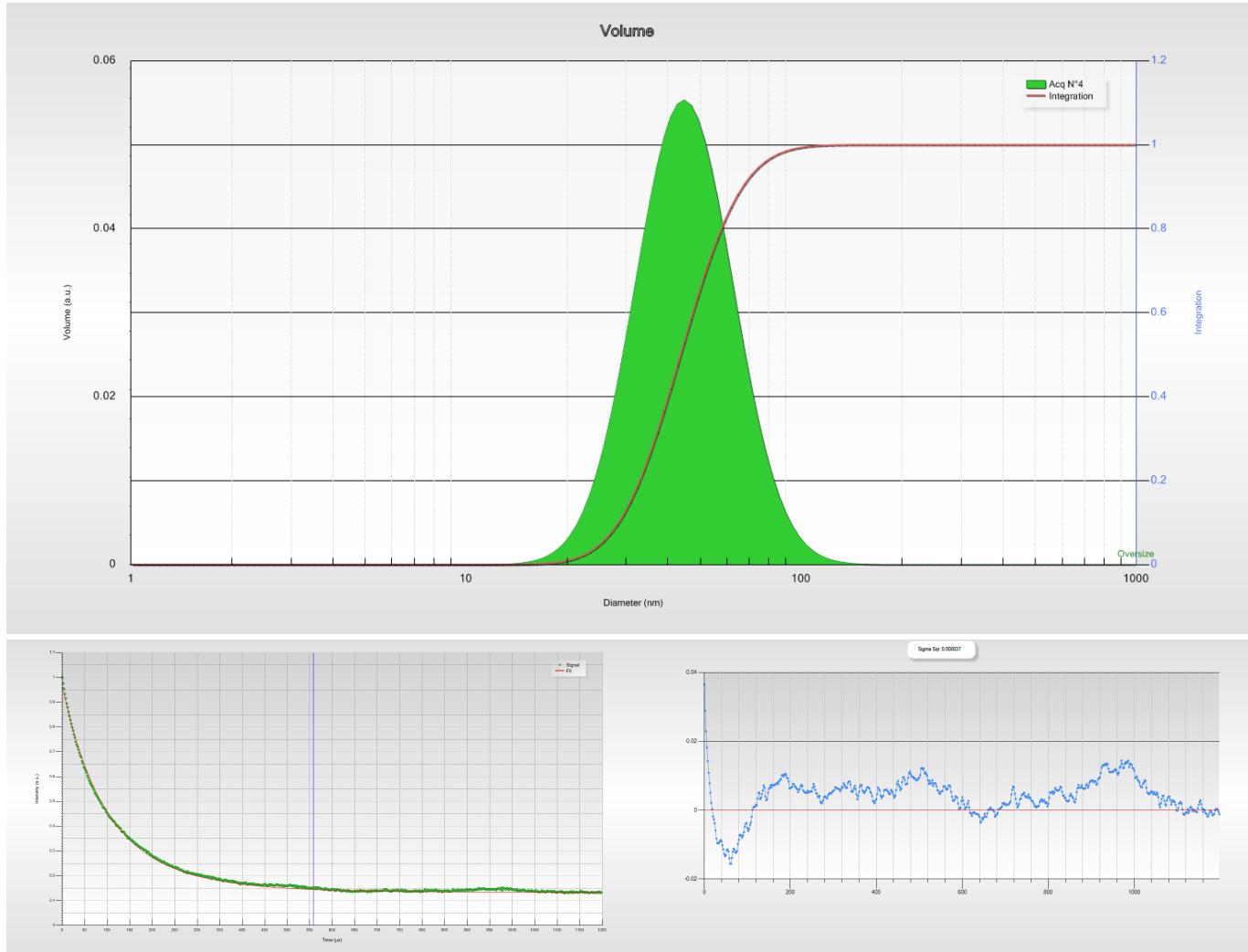


Distribution statistics

Dn 10%: 21.35 nm	Dn 50%: 32.36 nm	Dn 90%: 49.06 nm
Mean Number: 33.85 nm		
PDI : 0.45961		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

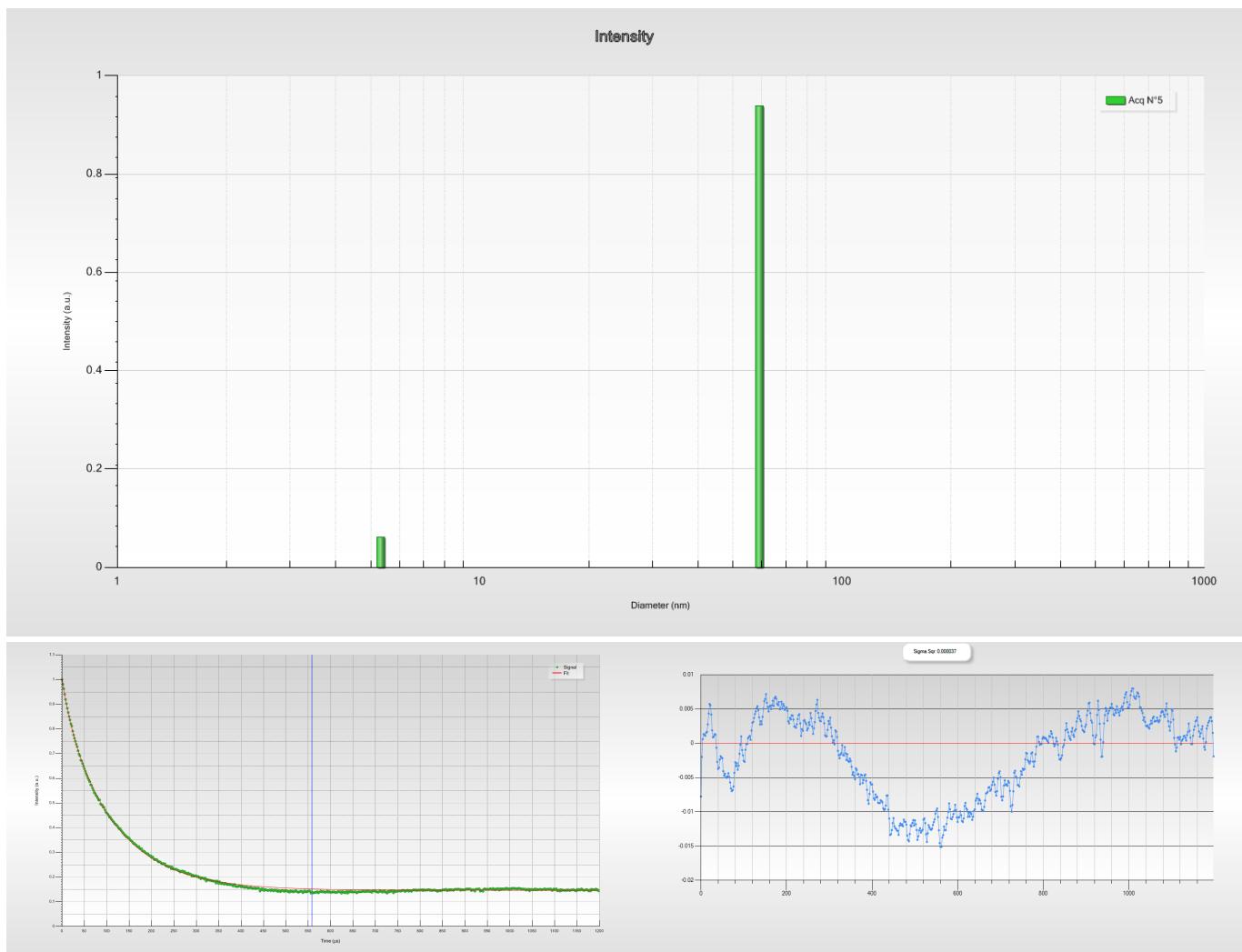


Distribution statistics

D_v 10%: 29.5 nm	D_v 50%: 44.73 nm	D_v 90%: 67.81 nm
Mean Volume: 47.23 nm		
PDI : 0.45961		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

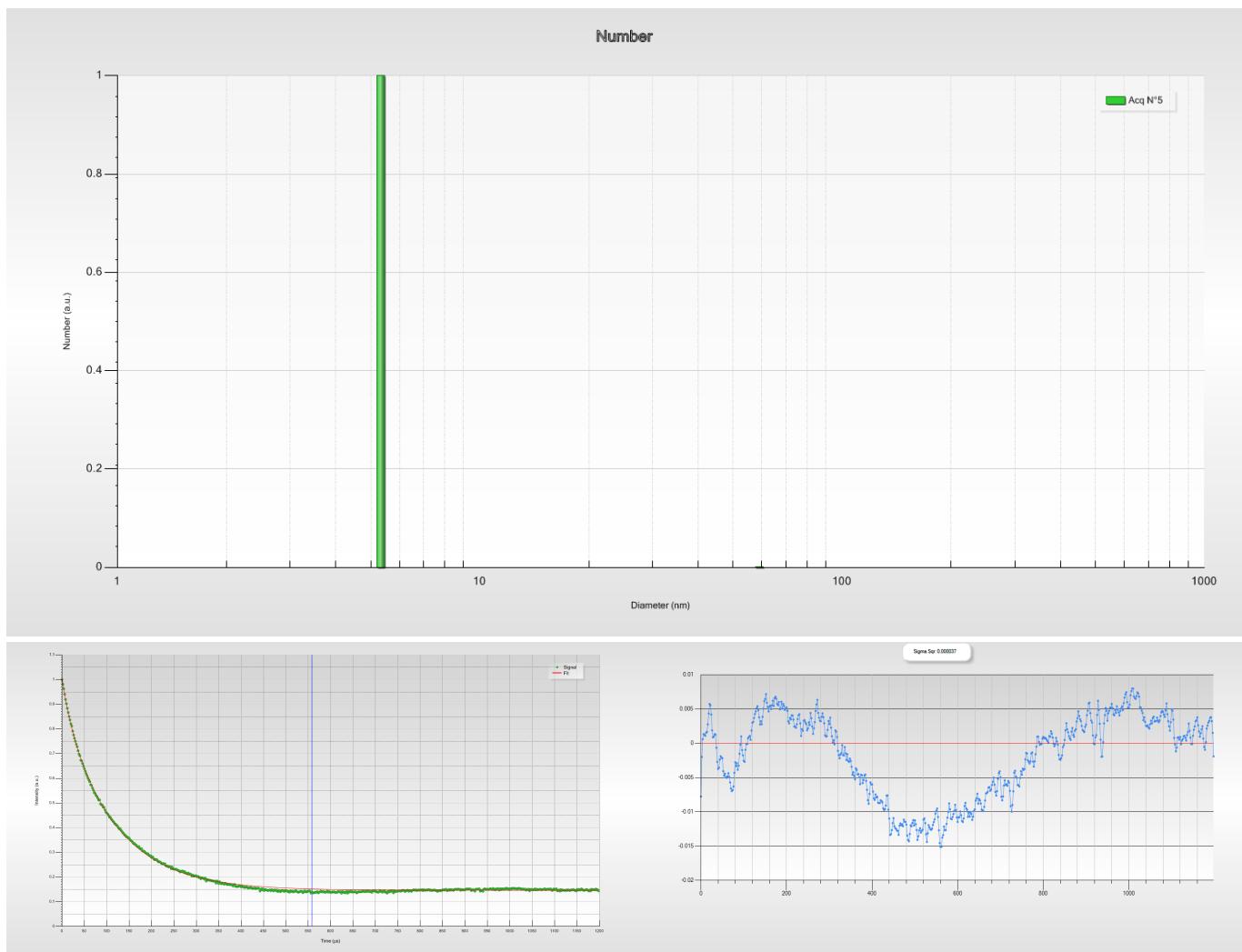
Di 10%: 59.03 nm **Di 50%:** 59.03 nm **Di 90%:** 59.03 nm
Mean Intensity: 55.7 nm

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 data

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



Dispersion statistics

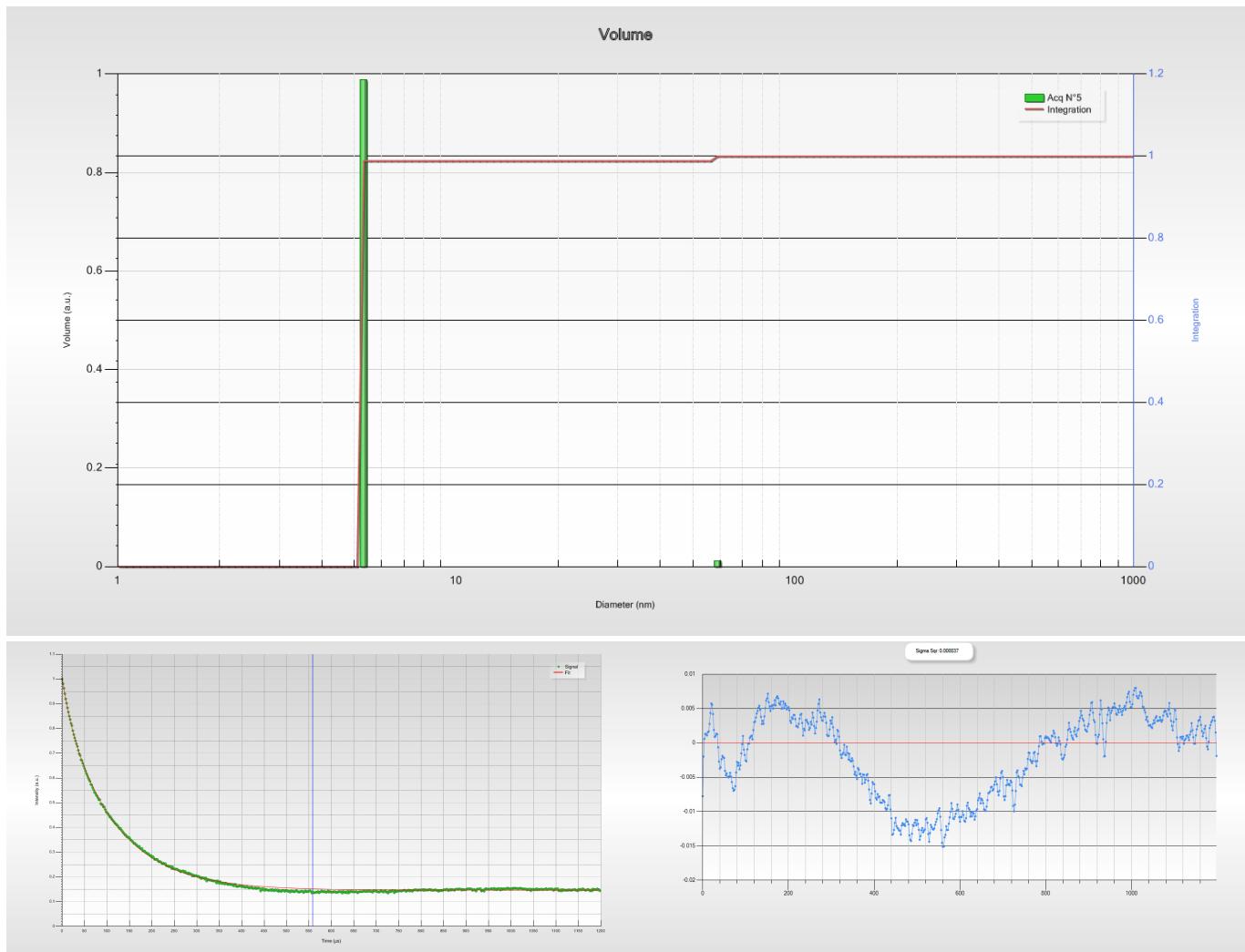
Dn 10%: 5.33 nm **Dn 50%:** 5.33 nm **Dn 90%:** 5.33 nm
Mean Number: 5.33 nm

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 data

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 data

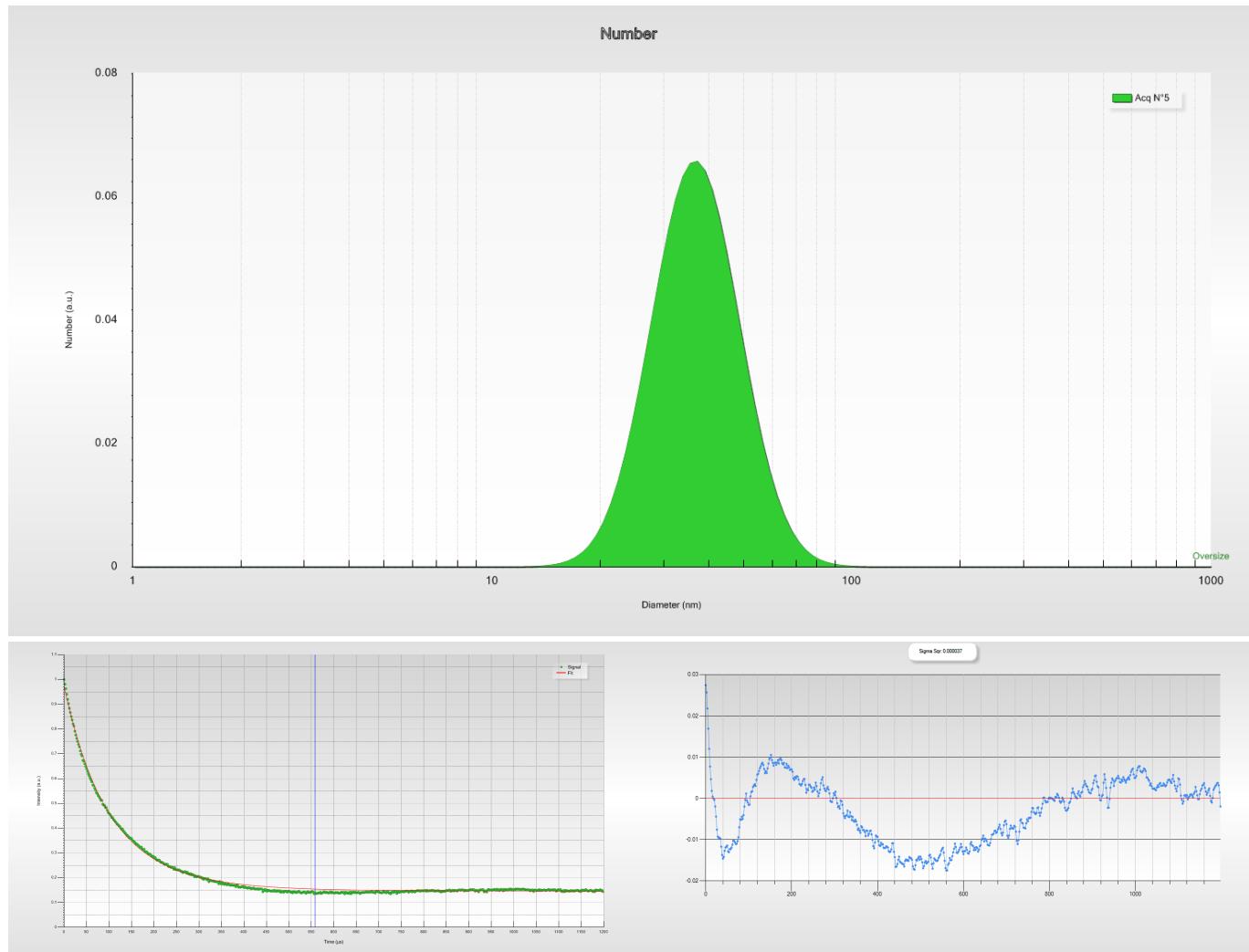
Size (nm)	Volume	Size (nm)	Volume
5.33	0.99	59.03	0.01

**Distribution statistics**

Di 10%: 40.78 nm	Di 50%: 59.03 nm	Di 90%: 81.59 nm
Mean Intensity: 60.34 nm		
PDI : 0.32031		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

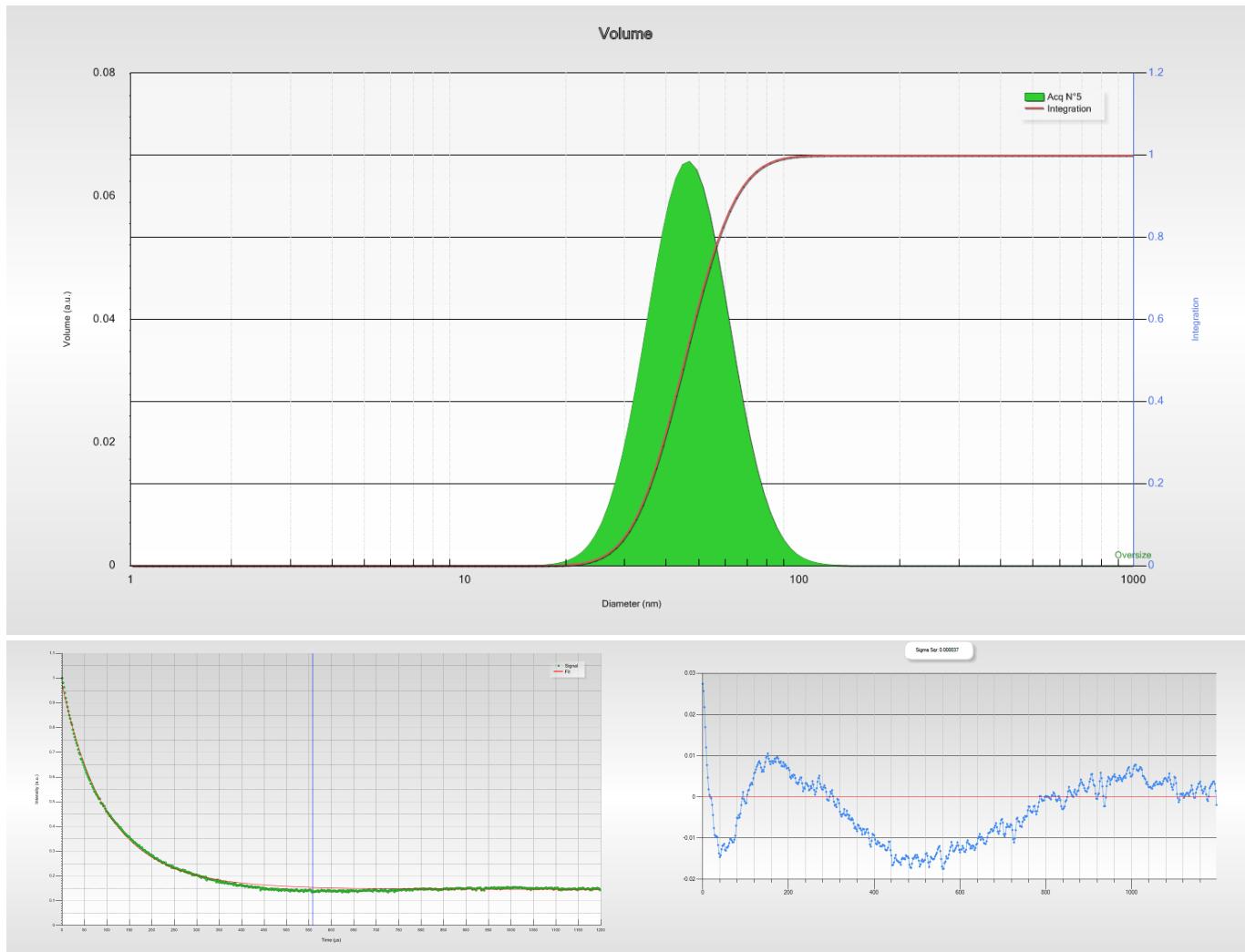


Distribution statistics

Dn 10%: 25.68 nm	Dn 50%: 37.18 nm	Dn 90%: 51.39 nm
Mean Number: 38.14 nm		
PDI : 0.32031		Std Dev: 28.3%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
51.71	0.83	5023.82	95.04249E-013



Distribution statistics

D_v 10%: 32.36 nm	D_v 50%: 46.85 nm	D_v 90%: 67.81 nm
Mean Volume: 48.3 nm		
PDI : 0.32031		Std Dev: 28.3%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
51.71	0.83	5023.82	95.04249E-013