

Sample

Name : GNP_11.4.16_0.8_5k_1
Mesured On : 11.04.2016 17:34
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	: 39.7 %	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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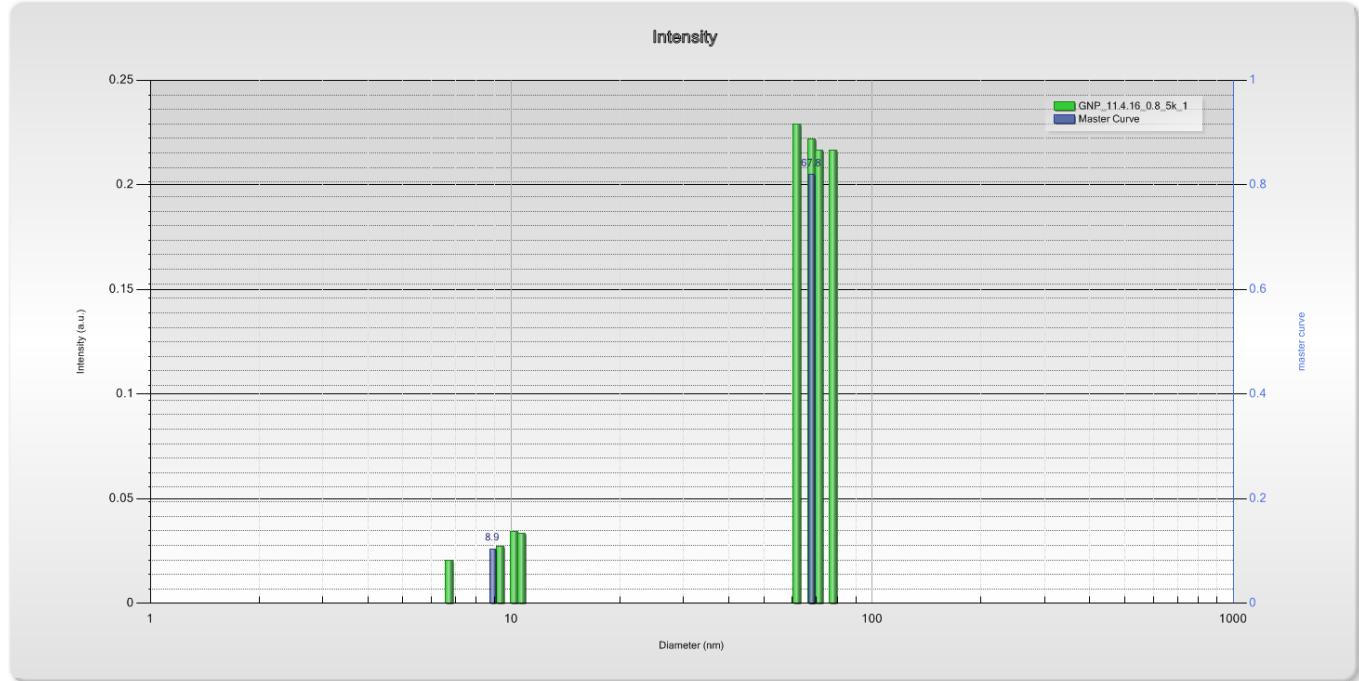
Algorithm

Pade Laplace	Cumulants
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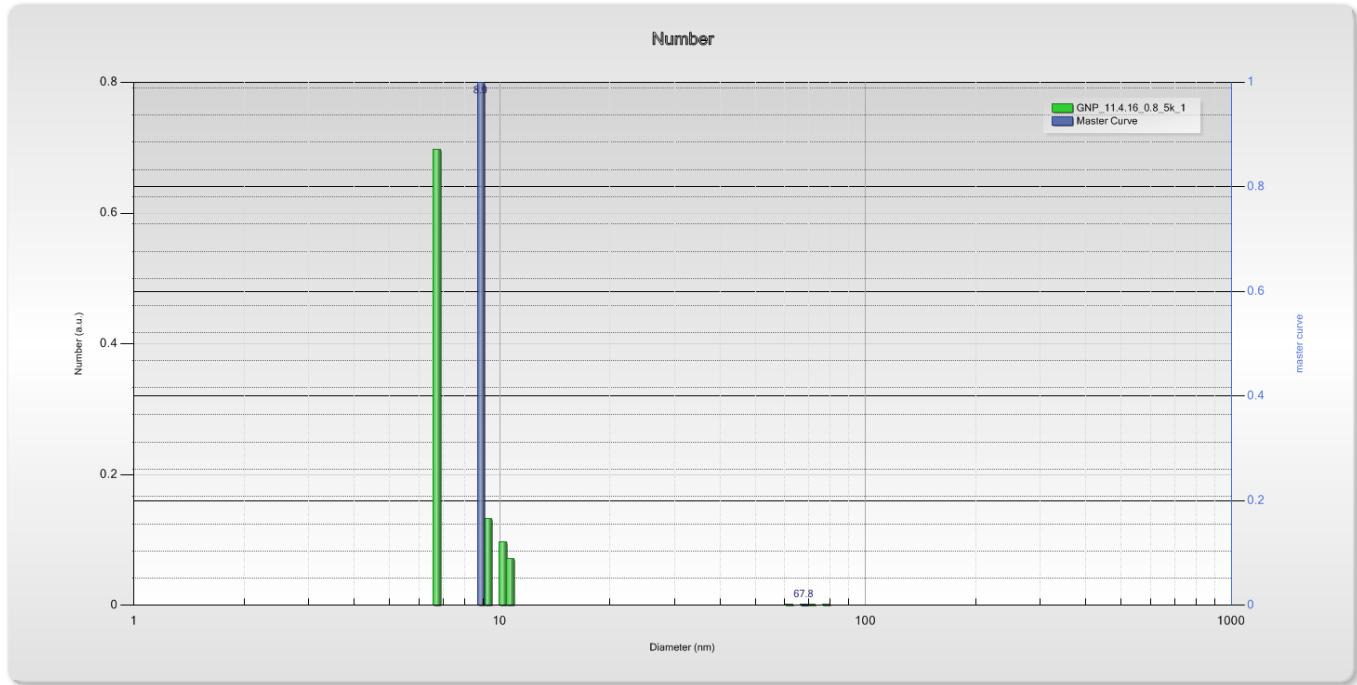
Measurement

Average count rate : 2390 kcps
Number of rejected : 1

Duration : 00:05:16
Number of modified : 0

***Dispersion statistics******Di 10%:*** 10.67 nm***Di 50%:*** 67.81 nm***Di 90%:*** 77.91 nm***Dispersion data***

Size (nm)	Intensity						
6.72	0.02	10.67	0.03	71.02	0.22		
9.29	0.03	61.83	0.23	77.91	0.22		
10.19	0.03	67.81	0.22				



Dispersion statistics

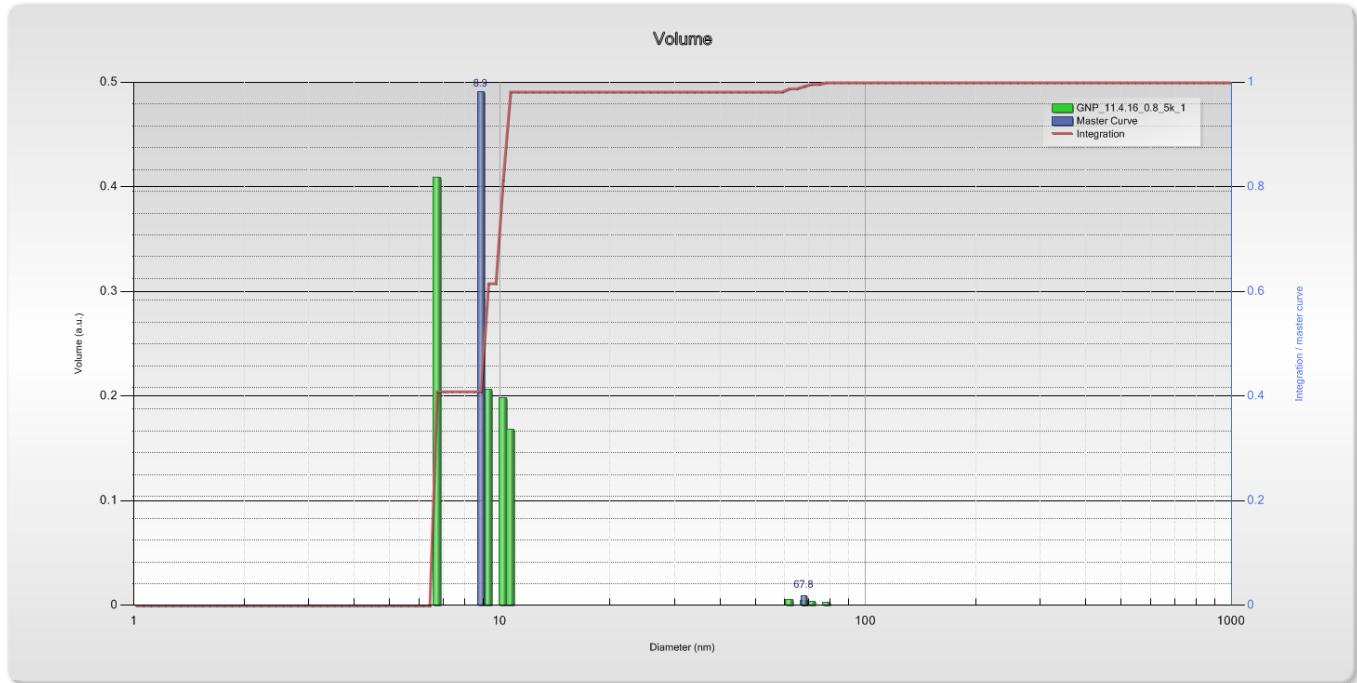
Dn 10%: 6.72 nm

Dn 50%: 6.72 nm

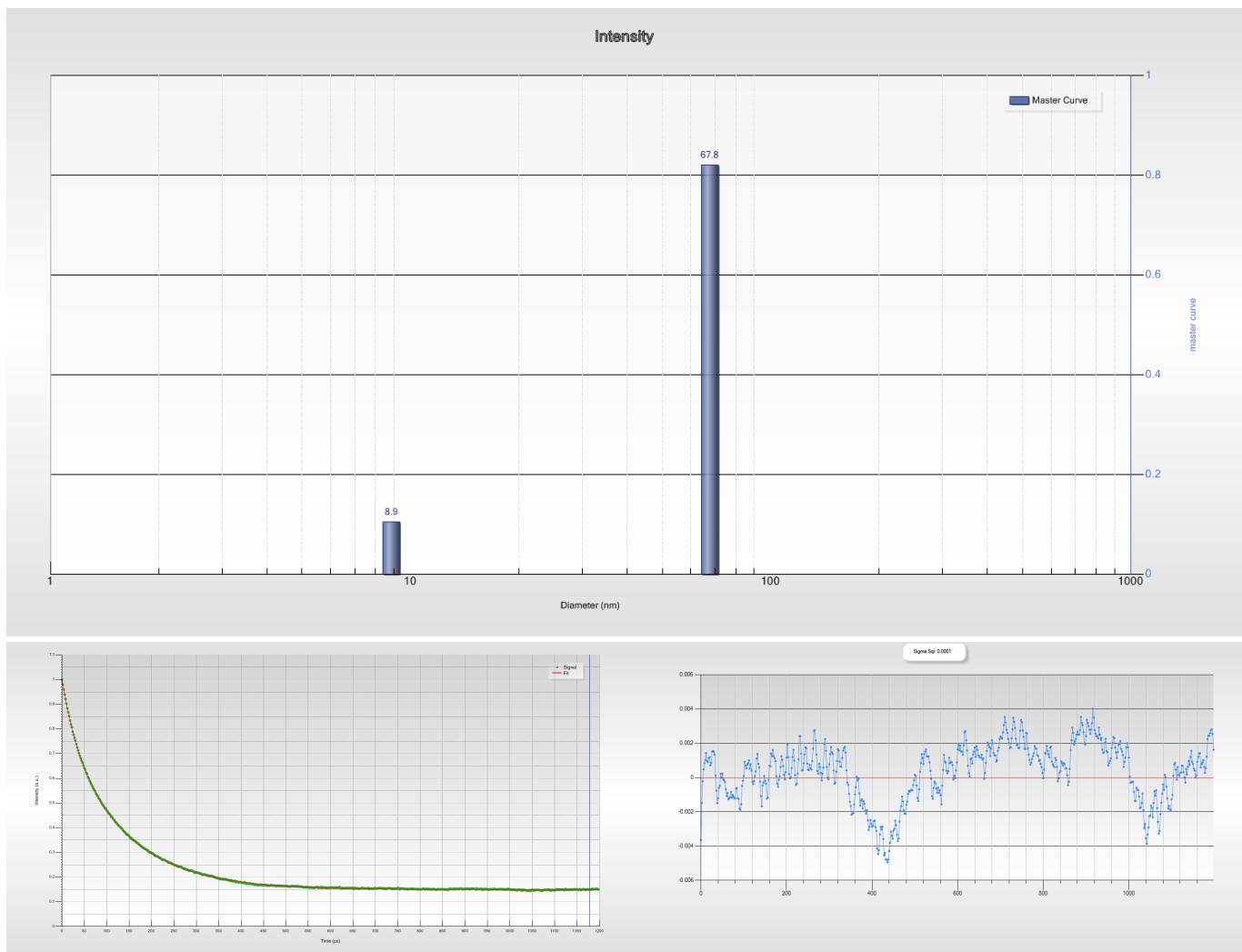
Dn 90%: 10.19 nm

Dispersion data

Size (nm)	Number						
6.72	0.7	10.19	0.1				
9.29	0.13	10.67	0.07				

**Dispersion statistics****D_v 10%:** 6.72 nm**D_v 50%:** 9.29 nm**D_v 90%:** 10.67 nm**Dispersion data**

Size (nm)	Volume						
6.72	0.41	10.19	0.2	61.83	0.01		
9.29	0.21	10.67	0.17				



Dispersion statistics

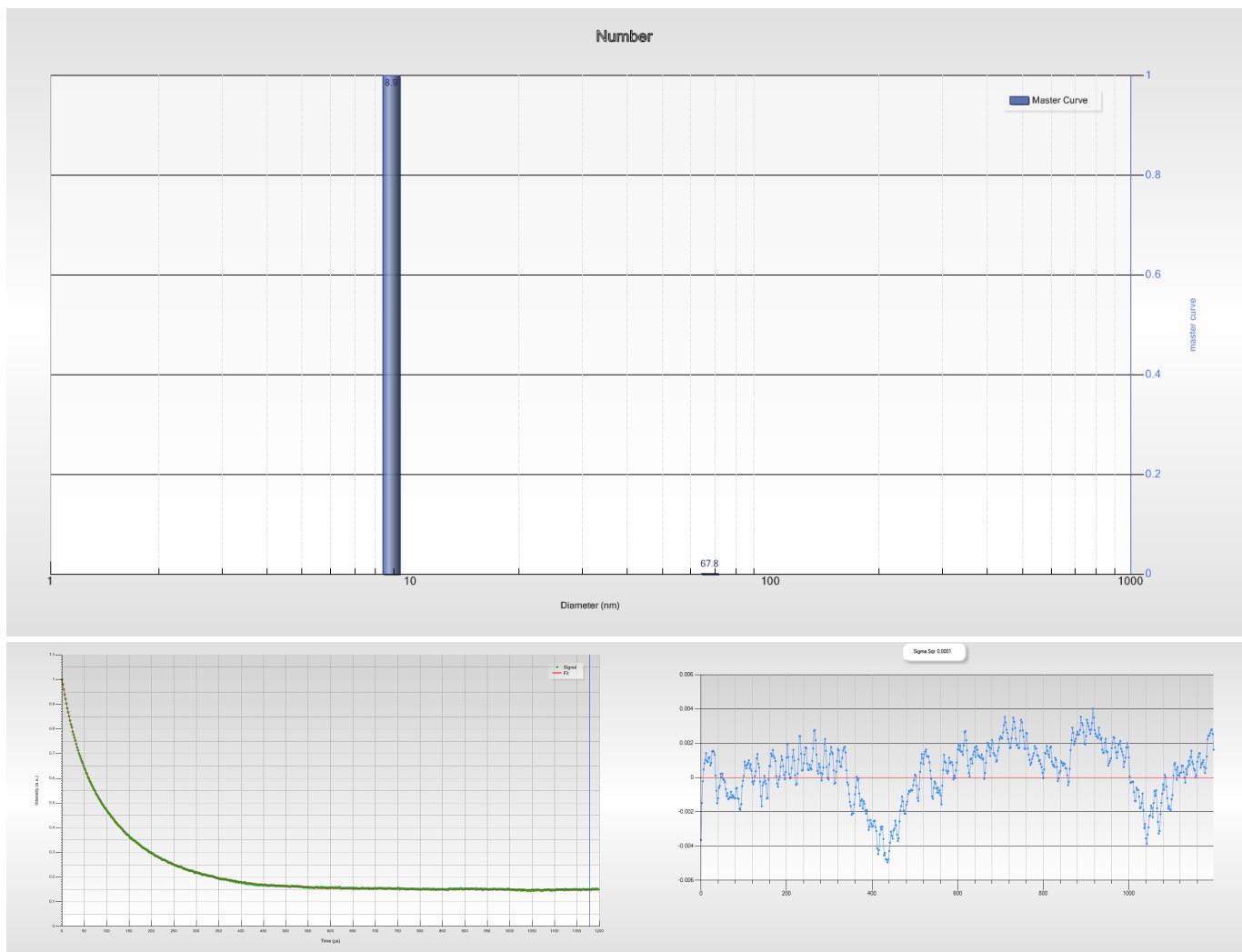
Di 10%: 8.87 nm **Di 50%:** 67.81 nm **Di 90%:** 67.81 nm
Mean Intensity: 61.15 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
8.92	0.1	29196.98	55.23596E-012
68.66	0.82	3792.26	71.74346E-013

Dispersion data

Size (nm)	Intensity	Size (nm)	Intensity
8.87	0.11	67.81	0.89



Dispersion statistics

Dn 10%: 8.87 nm
Mean Number: 8.87 nm

Dn 50%: 8.87 nm

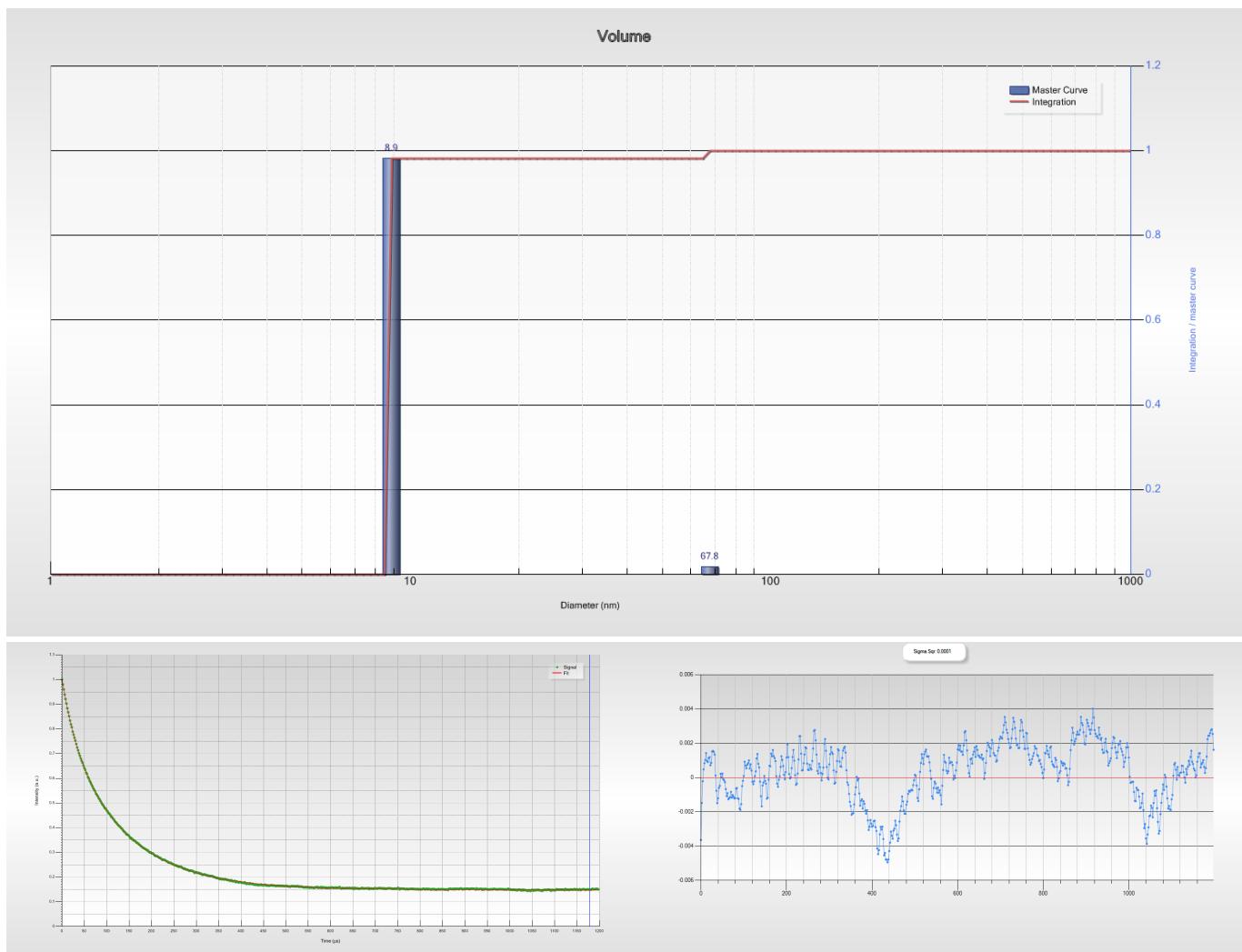
Dn 90%: 8.87 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
8.92	0.1	29196.98	55.23596E-012
68.66	0.82	3792.26	71.74346E-013

Dispersion data

Size (nm)	Number
8.87	1



Dispersion statistics

D_v 10%: 8.87 nm
Mean Volume: 9.94 nm

D_v 50%: 8.87 nm

D_v 90%: 8.87 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
8.92	0.1	29196.98	55.23596E-012
68.66	0.82	3792.26	71.74346E-013

Dispersion data

Size (nm)	Volume	Size (nm)	Volume
8.87	0.98	67.81	0.02

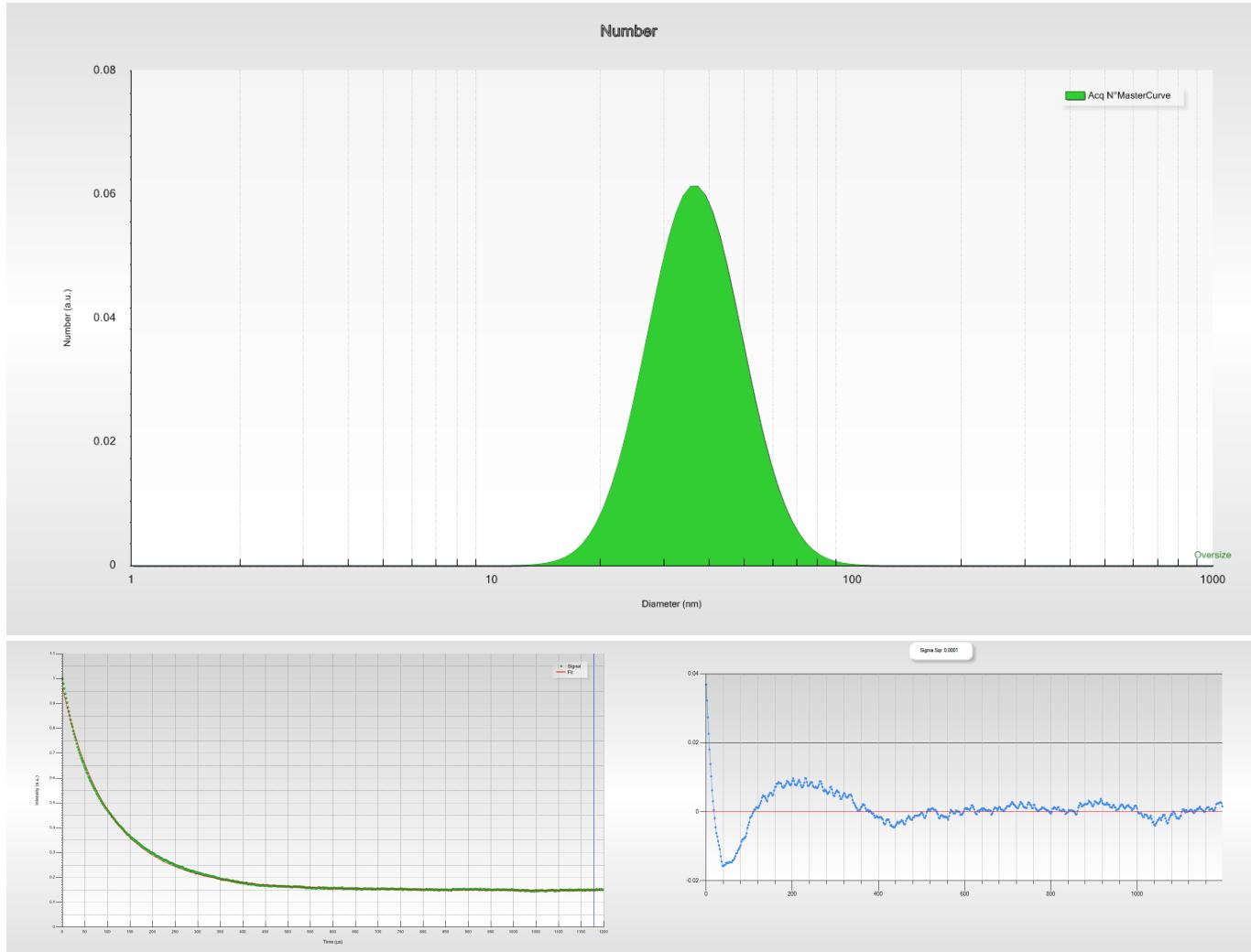


Distribution statistics

Di 10%: 42.71 nm	Di 50%: 61.83 nm	Di 90%: 89.5 nm
Mean Intensity: 64.43 nm		
PDI : 0.36911		Std Dev: 30.38%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
54	0.81	4811.78	91.031E-013

**Distribution statistics**

Dn 10%: 24.52 nm
Mean Number: 38.09 nm
PDI : 0.36911

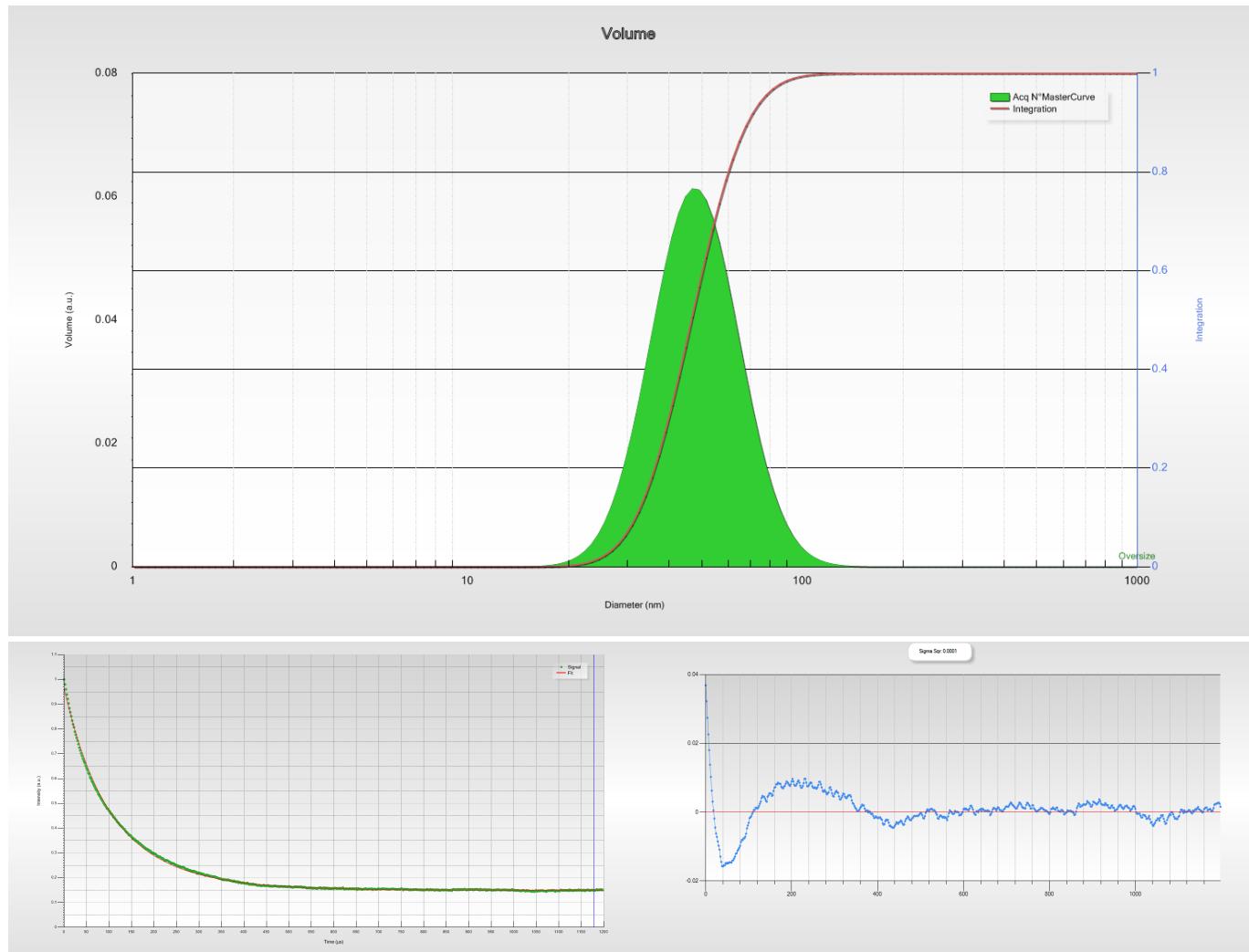
Dn 50%: 37.18 nm

Dn 90%: 53.82 nm

Std Dev: 30.38%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
54	0.81	4811.78	91.031E-013

**Distribution statistics**

D_v 10%: 32.36 nm
Mean Volume: 49.92 nm
PDI : 0.36911

D_v 50%: 46.85 nm

D_v 90%: 71.02 nm

Std Dev: 30.38%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
54	0.81	4811.78	91.031E-013



Dispersion statistics

Di 10%: 10.67 nm
Mean Intensity: 62.91 nm

Di 50%: 71.02 nm

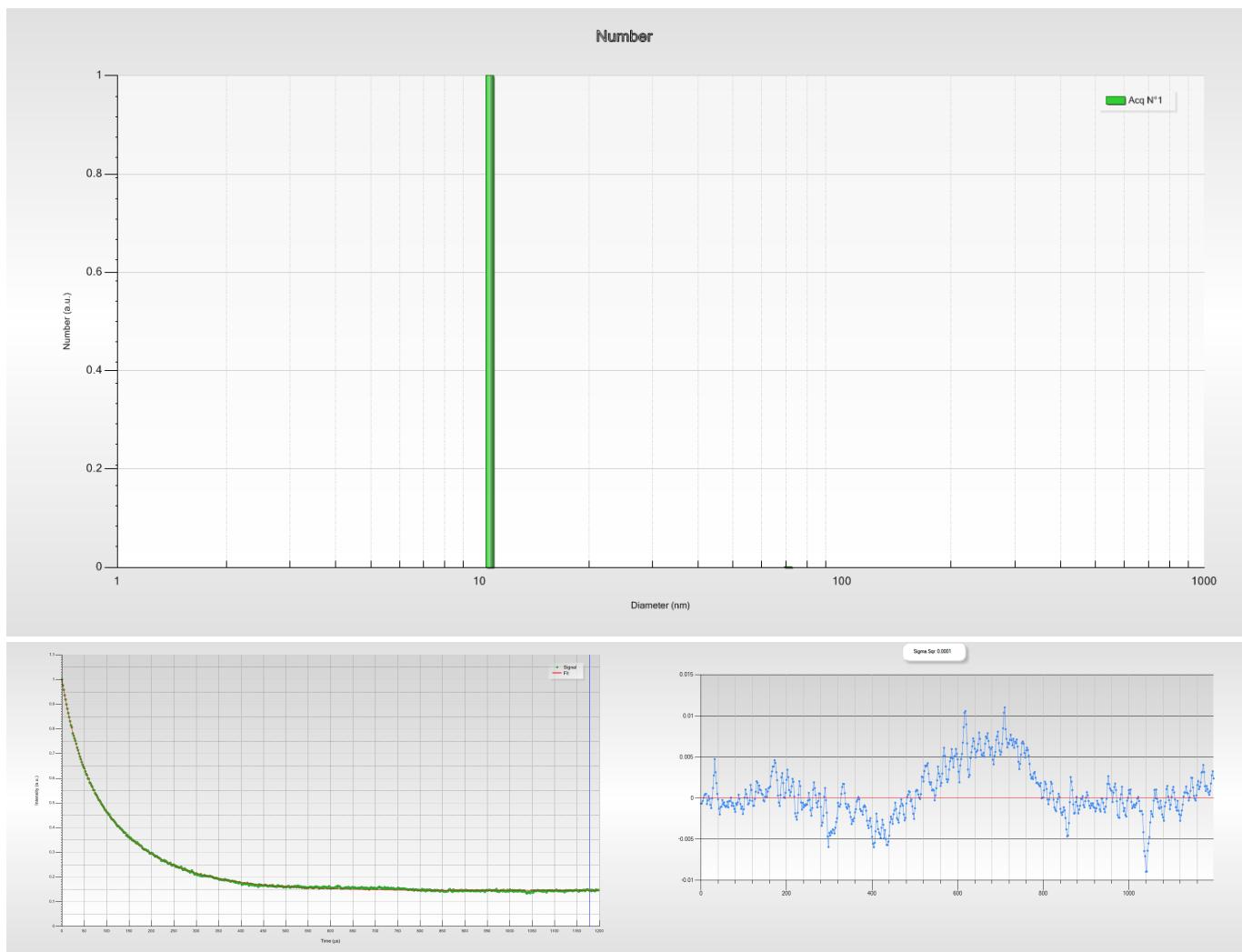
Di 90%: 71.02 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
10.5	0.12	24857.38	47.02614E-012
71.37	0.8	3655.22	69.15082E-013

Dispersion data

Size (nm)	Intensity	Size (nm)	Intensity
10.67	0.13	71.02	0.87



Dispersion statistics

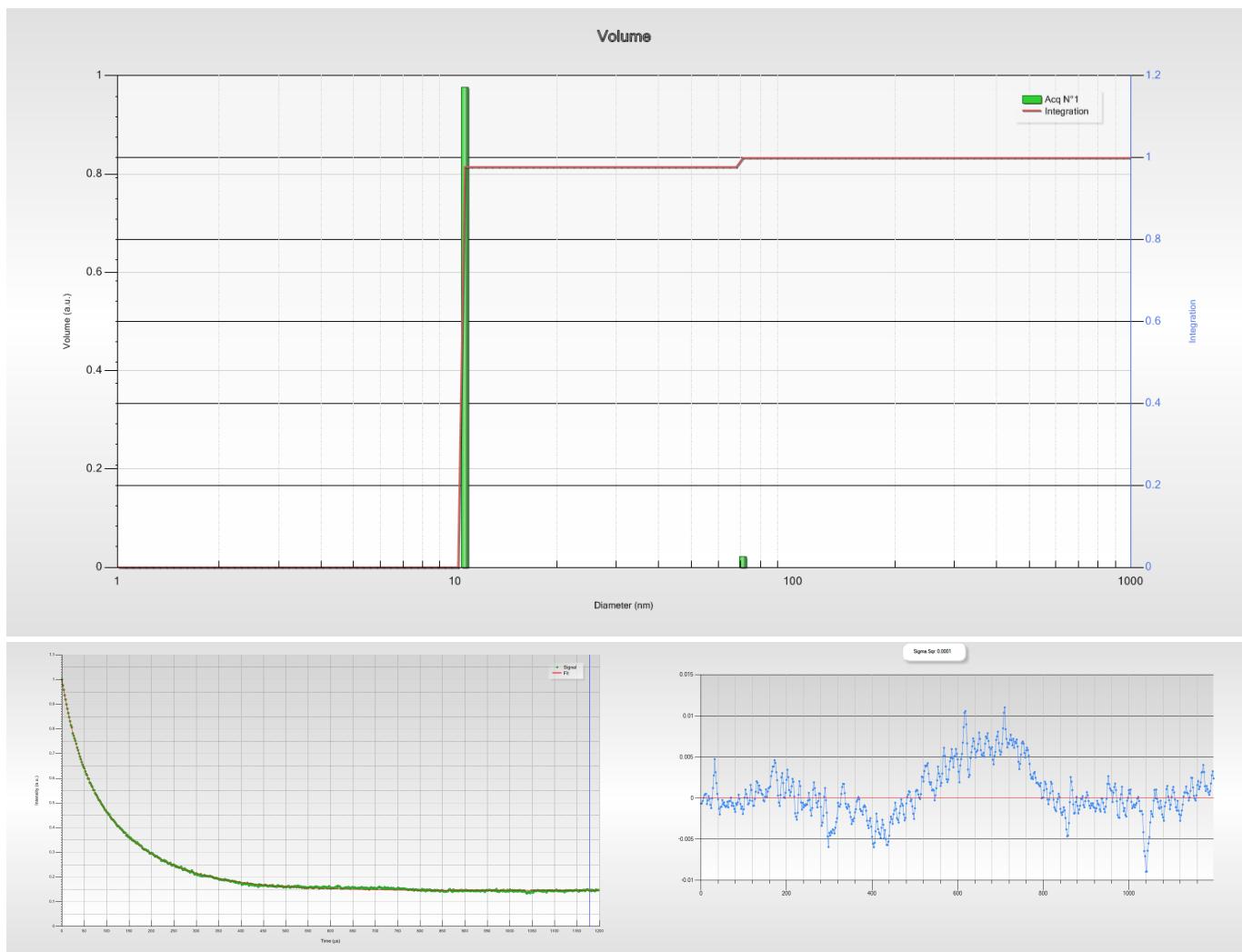
Dn 10%: 10.67 nm Dn 50%: 10.67 nm Dn 90%: 10.67 nm
 Mean Number: 10.67 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
10.5	0.12	24857.38	47.02614E-012
71.37	0.8	3655.22	69.15082E-013

Dispersion data

Size (nm)	Number
10.67	1



Dispersion statistics

D_v 10%: 10.67 nm **D_v 50%:** 10.67 nm **D_v 90%:** 10.67 nm
Mean Volume: 12.03 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
10.5	0.12	24857.38	47.02614E-012
71.37	0.8	3655.22	69.15082E-013

Dispersion data

Size (nm)	Volume	Size (nm)	Volume
10.67	0.98	71.02	0.02

**Distribution statistics**

Di 10%: 40.78 nm
Mean Intensity: 65 nm
PDI : 0.42406

Di 50%: 61.83 nm

Di 90%: 93.73 nm

Std Dev: 32.56%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
53.35	0.82	4889.84	92.50794E-013

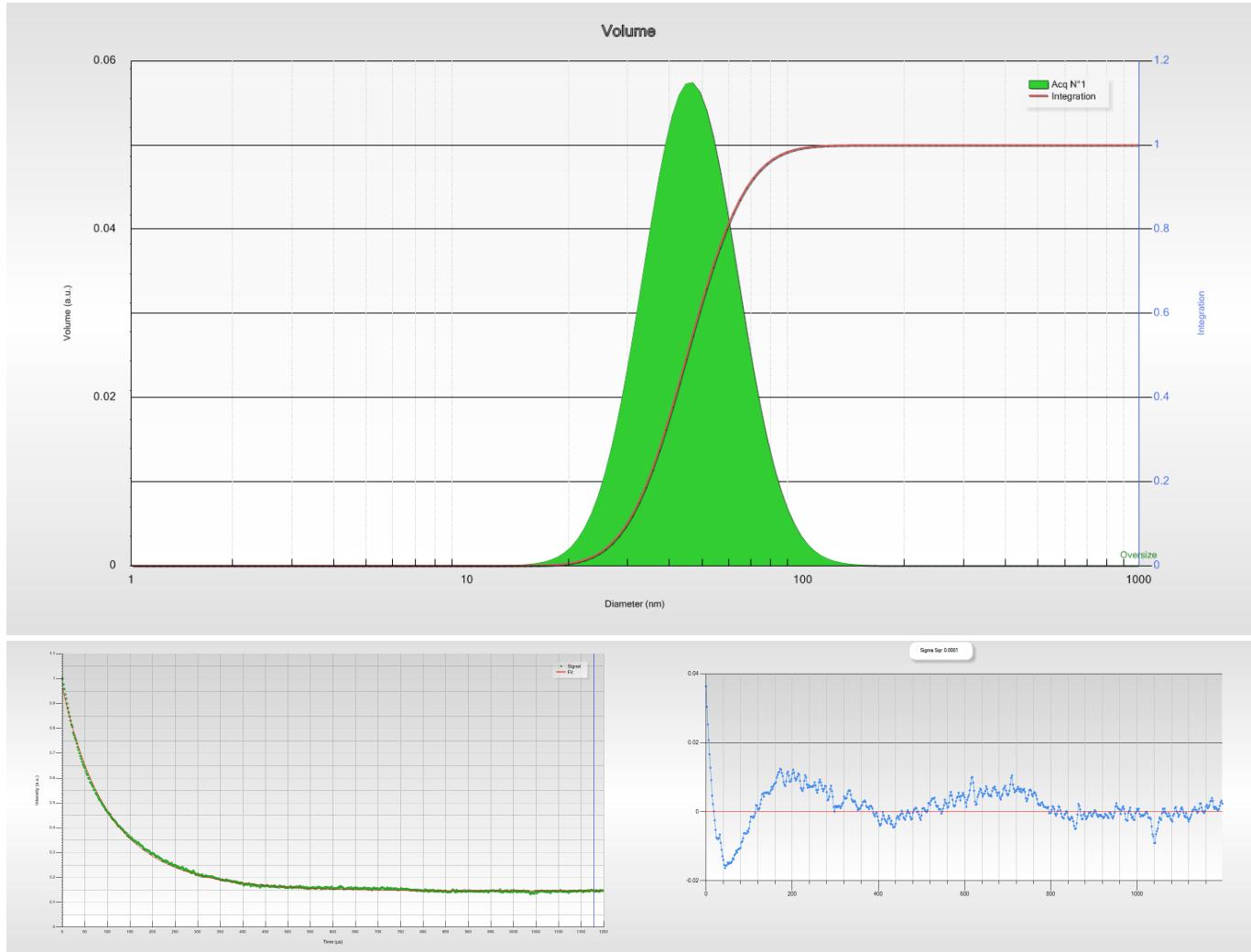


Distribution statistics

Dn 10%: 22.36 nm **Dn 50%:** 33.89 nm **Dn 90%:** 51.39 nm
Mean Number: 35.66 nm **Std Dev:** 32.56%
PDI : 0.42406

Detected size(s)

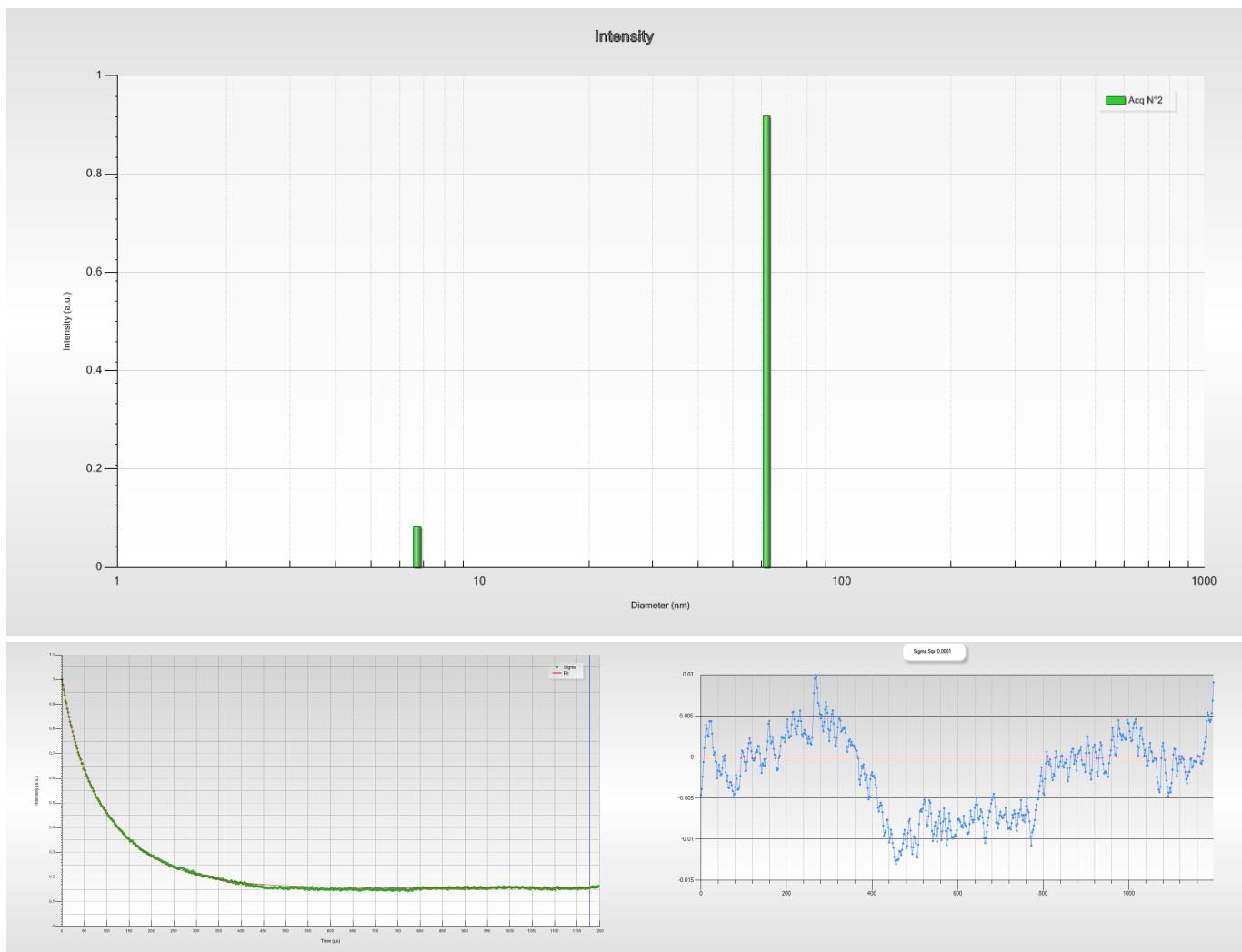
Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
53.35	0.82	4889.84	92.50794E-013

**Distribution statistics**

D_v 10%: 30.9 nm	D_v 50%: 46.85 nm	D_v 90%: 71.02 nm
Mean Volume: 48.55 nm		
PDI : 0.42406		Std Dev: 32.56%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
53.35	0.82	4889.84	92.50794E-013



Dispersion statistics

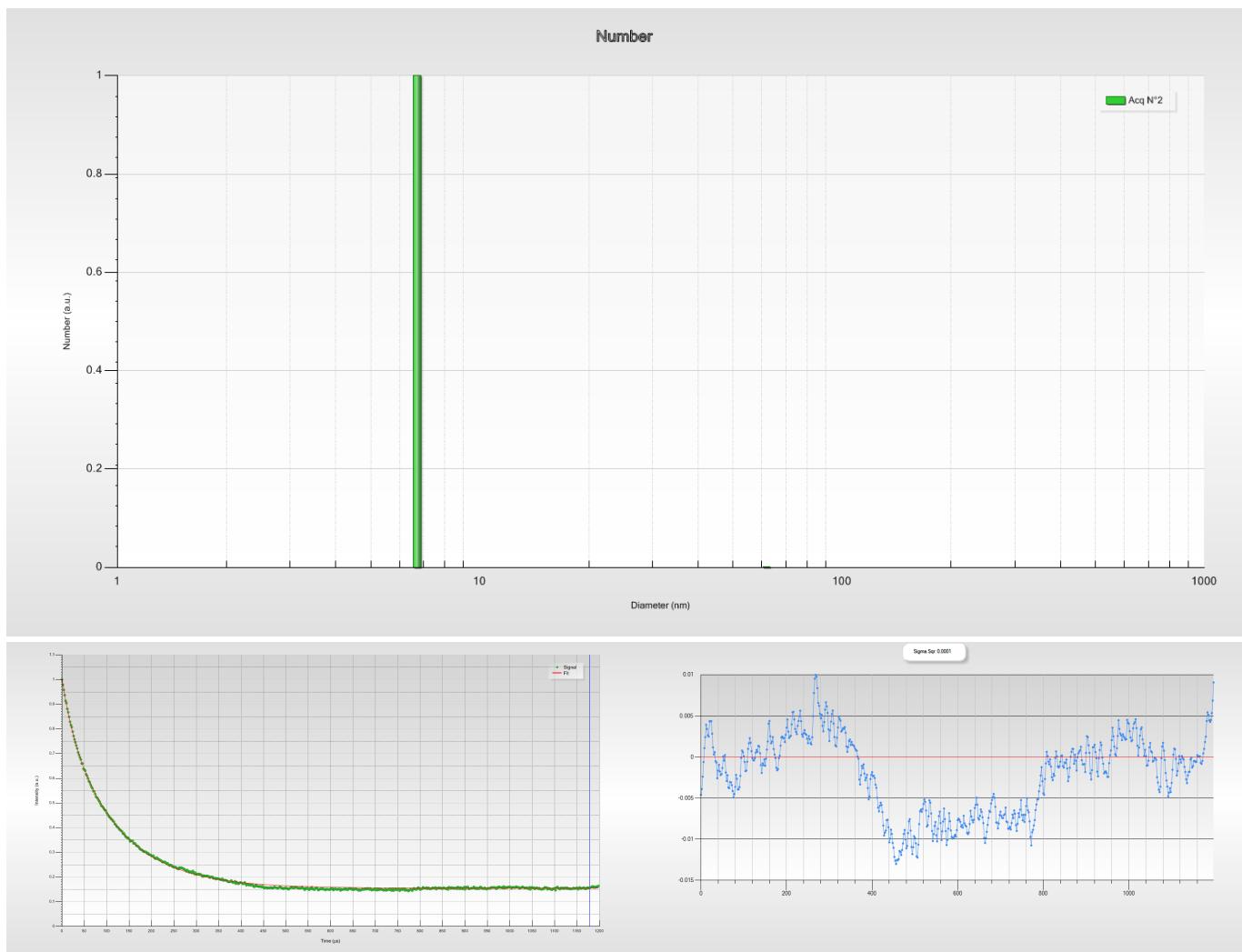
Di 10%: 61.83 nm **Di 50%:** 61.83 nm **Di 90%:** 61.83 nm
Mean Intensity: 57.3 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
6.72	0.08	38736.75	73.28367E-012
60.7	0.85	4288.79	81.13688E-013

Dispersion data

Size (nm)	Intensity	Size (nm)	Intensity
6.72	0.08	61.83	0.92



Dispersion statistics

Dn 10%: 6.72 nm
Mean Number: 6.72 nm

Dn 50%: 6.72 nm

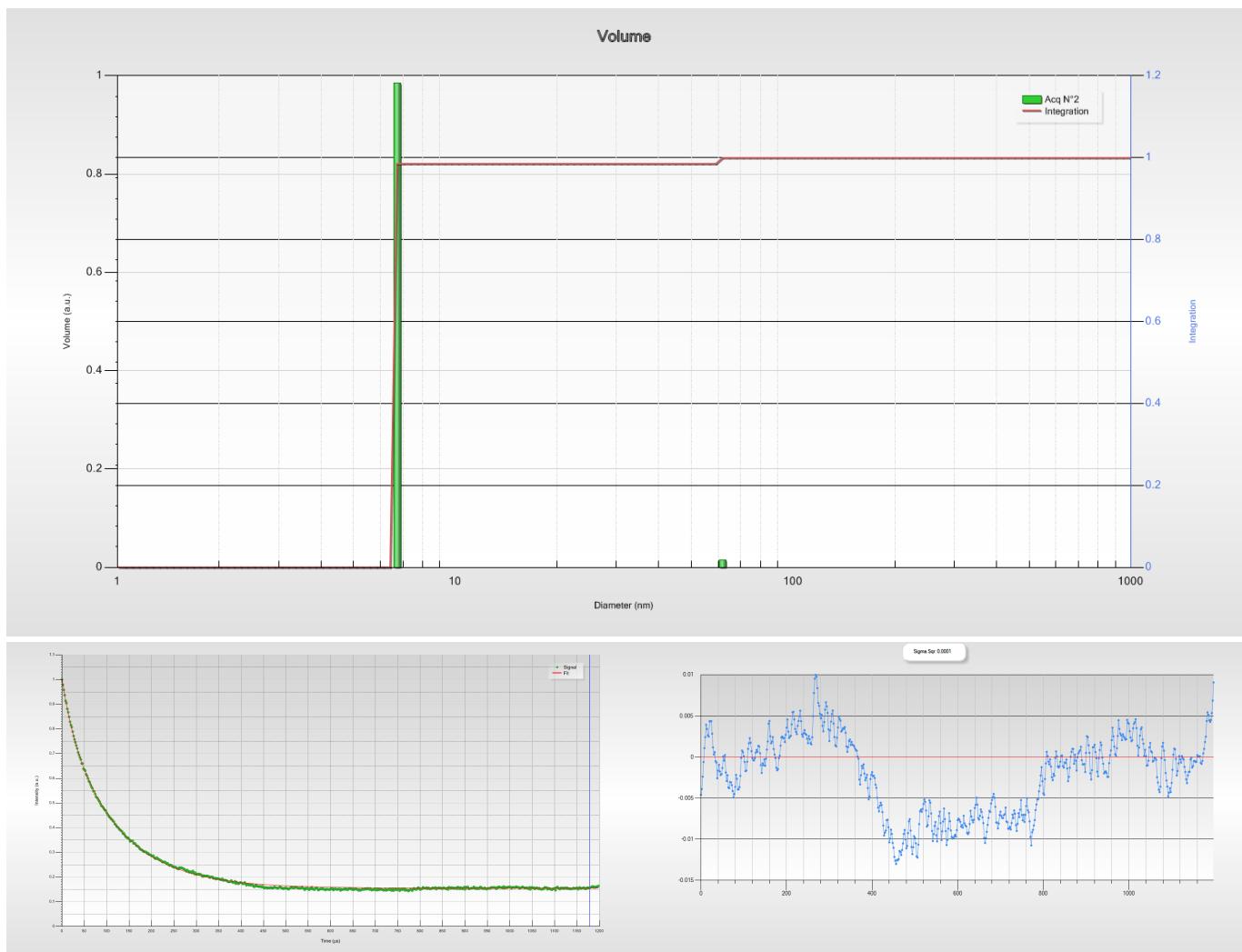
Dn 90%: 6.72 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
6.72	0.08	38736.75	73.28367E-012
60.7	0.85	4288.79	81.13688E-013

Dispersion data

Size (nm)	Number
6.72	1



Dispersion statistics

Dv 10%: 6.72 nm
Mean Volume: 7.53 nm

Dv 50%: 6.72 nm

Dv 90%: 6.72 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
6.72	0.08	38736.75	73.28367E-012
60.7	0.85	4288.79	81.13688E-013

Dispersion data

Size (nm)	Volume	Size (nm)	Volume
6.72	0.99	61.83	0.01

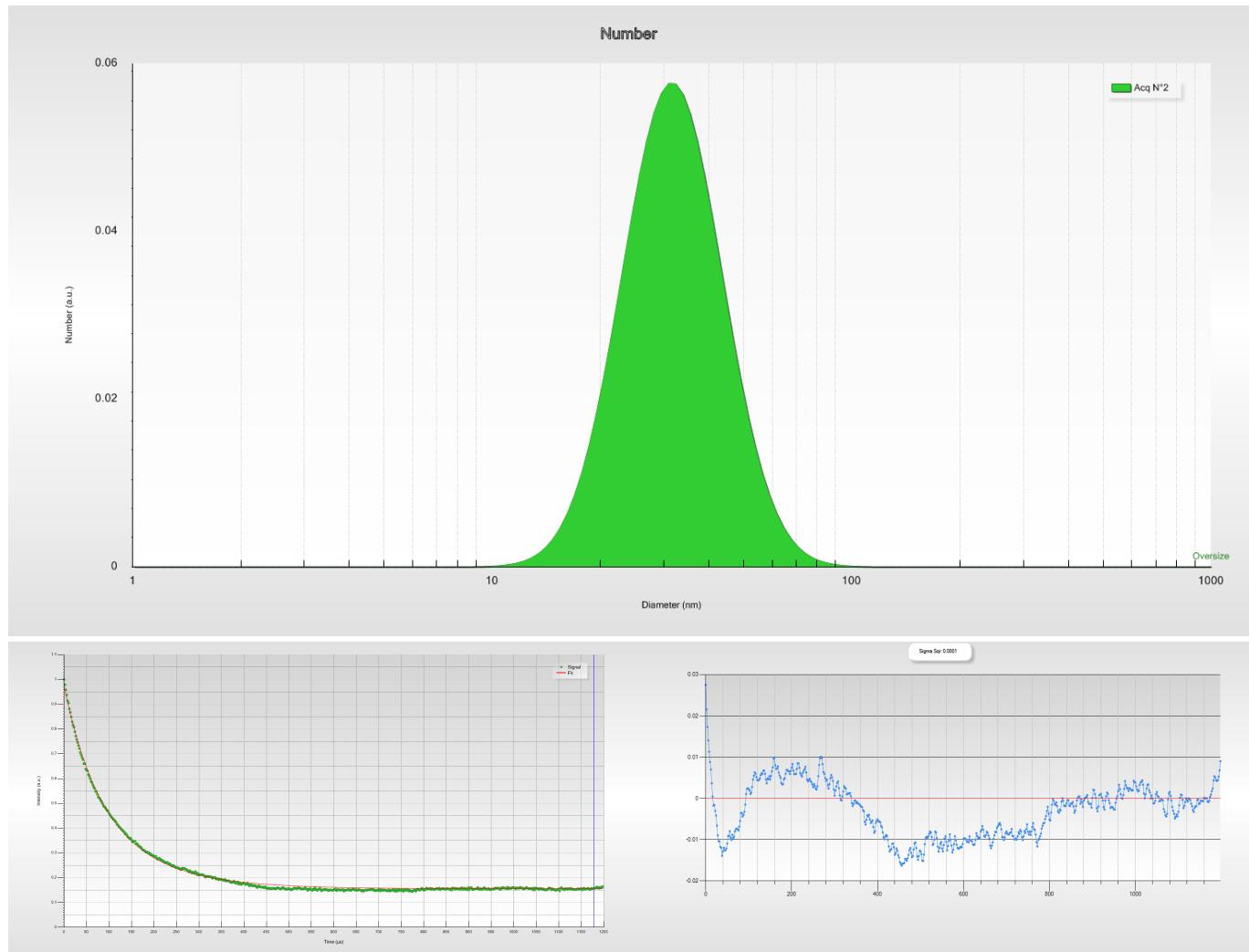


Distribution statistics

Di 10%: 38.94 nm **Di 50%:** 56.36 nm **Di 90%:** 85.45 nm
Mean Intensity: 60.53 nm **PDI** : 0.4226 **Std Dev:** 32.5%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
49.61	0.82	5247.6	99.27618E-013

**Distribution statistics**

Dn 10%: 21.35 nm
Mean Number: 33.25 nm
PDI : 0.4226

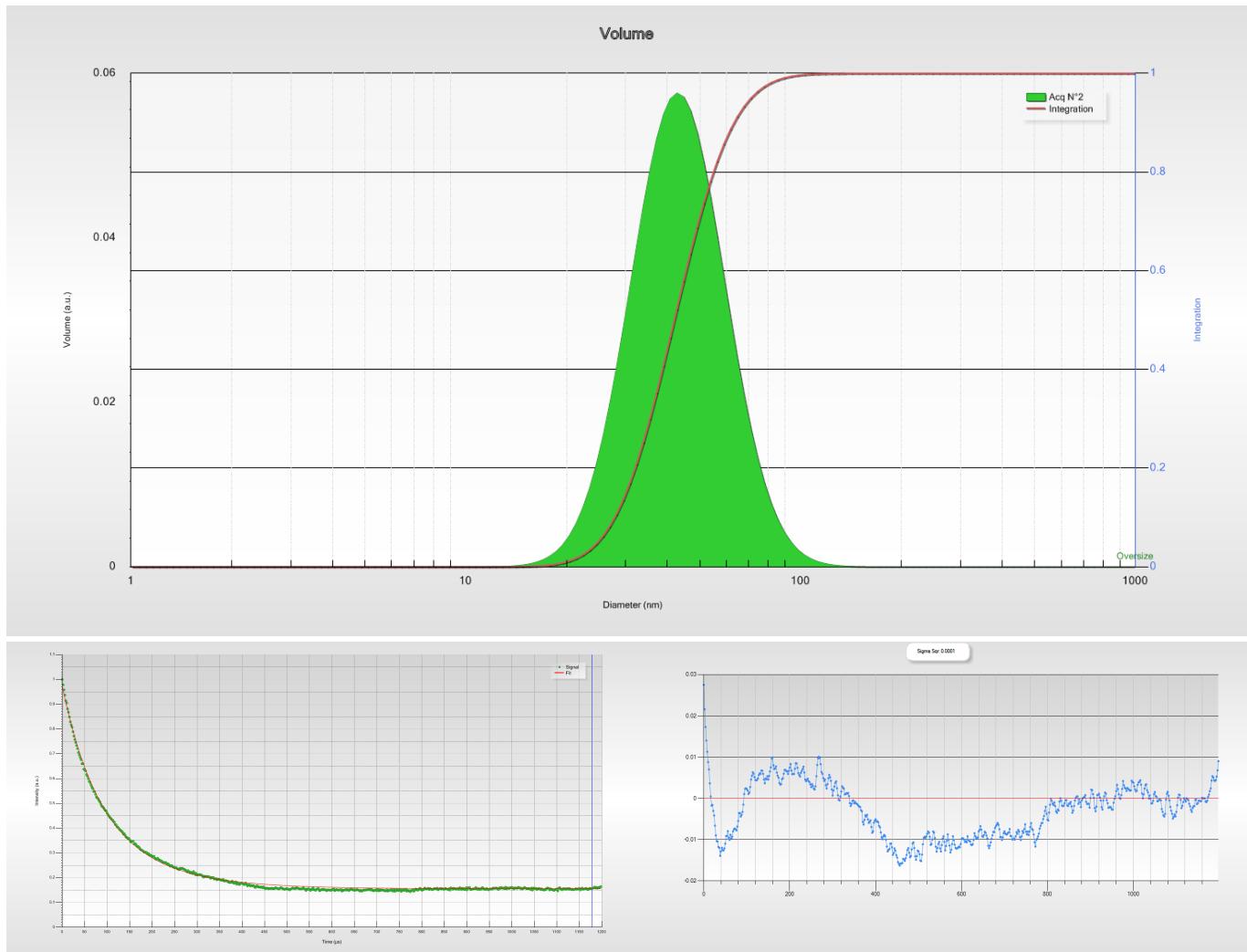
Dn 50%: 30.9 nm

Dn 90%: 46.85 nm

Std Dev: 32.5%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
49.61	0.82	5247.6	99.27618E-013

**Distribution statistics**

D_v 10%: 28.17 nm
Mean Volume: 45.21 nm
PDI : 0.4226

D_v 50%: 42.71 nm

D_v 90%: 64.75 nm

Std Dev: 32.5%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
49.61	0.82	5247.6	99.27618E-013



Dispersion statistics

Di 10%: 10.19 nm
Mean Intensity: 68.59 nm

Di 50%: 77.91 nm

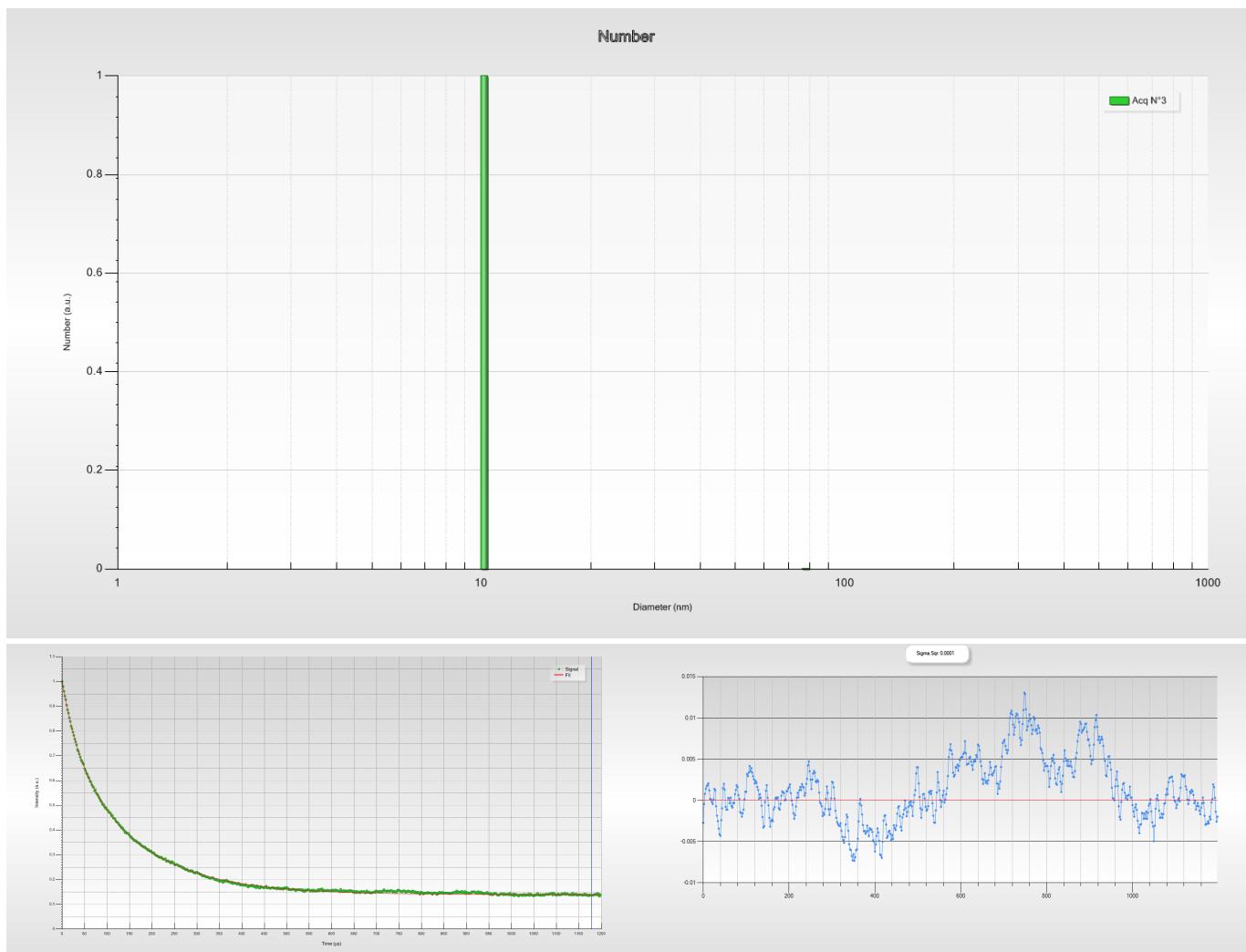
Di 90%: 77.91 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
10.35	0.13	25163.58	47.60543E-012
78.28	0.8	3325.48	62.91264E-013

Dispersion data

Size (nm)	Intensity	Size (nm)	Intensity
10.19	0.14	77.91	0.86



Dispersion statistics

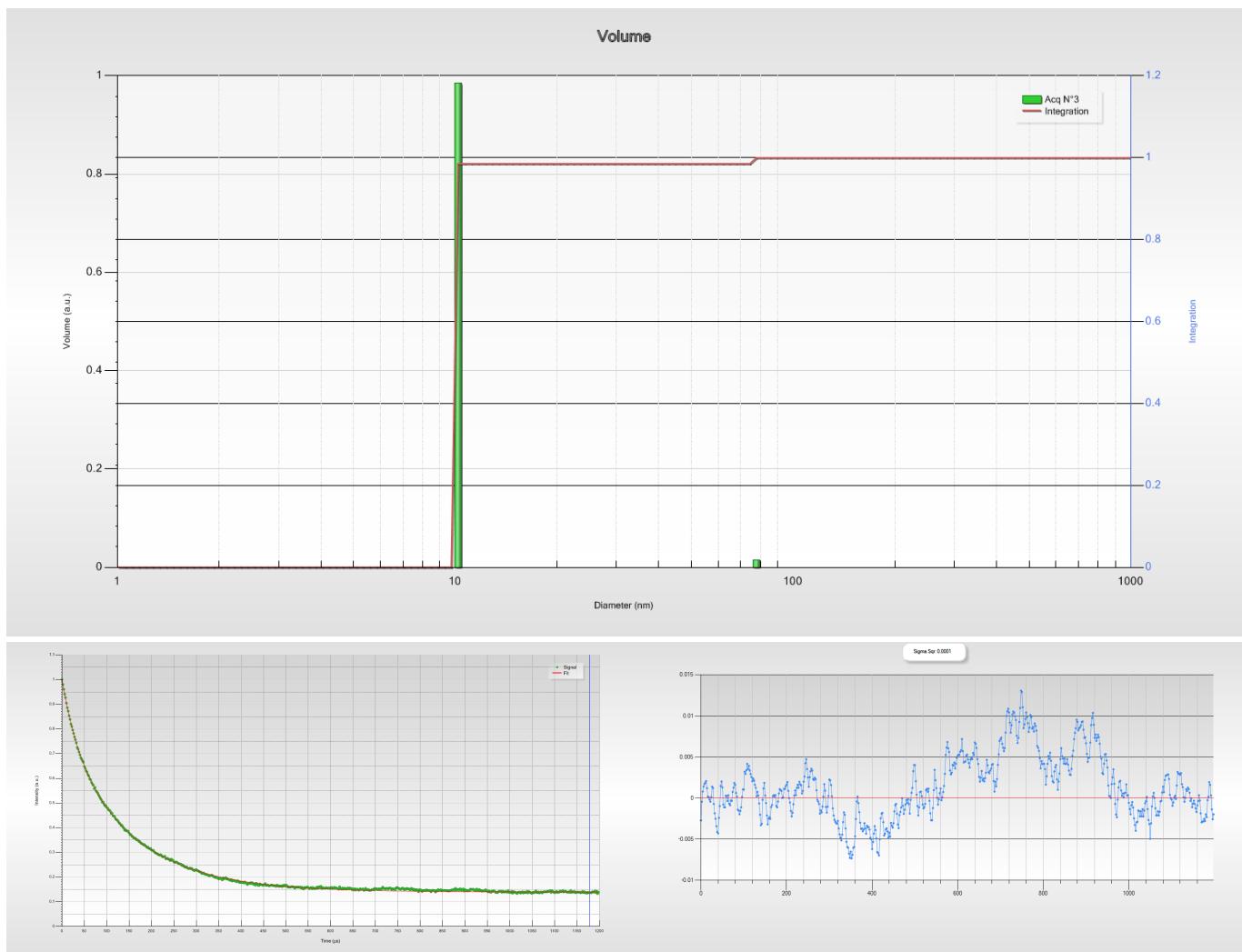
Dn 10%: 10.19 nm **Dn 50%:** 10.19 nm **Dn 90%:** 10.19 nm
Mean Number: 10.19 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
10.35	0.13	25163.58	47.60543E-012
78.28	0.8	3325.48	62.91264E-013

Dispersion data

Size (nm)	Number
10.19	1



Dispersion statistics

D_v 10%: 10.19 nm **D_v 50%:** 10.19 nm **D_v 90%:** 10.19 nm
Mean Volume: 11.19 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
10.35	0.13	25163.58	47.60543E-012
78.28	0.8	3325.48	62.91264E-013

Dispersion data

Size (nm)	Volume	Size (nm)	Volume
10.19	0.99	77.91	0.01

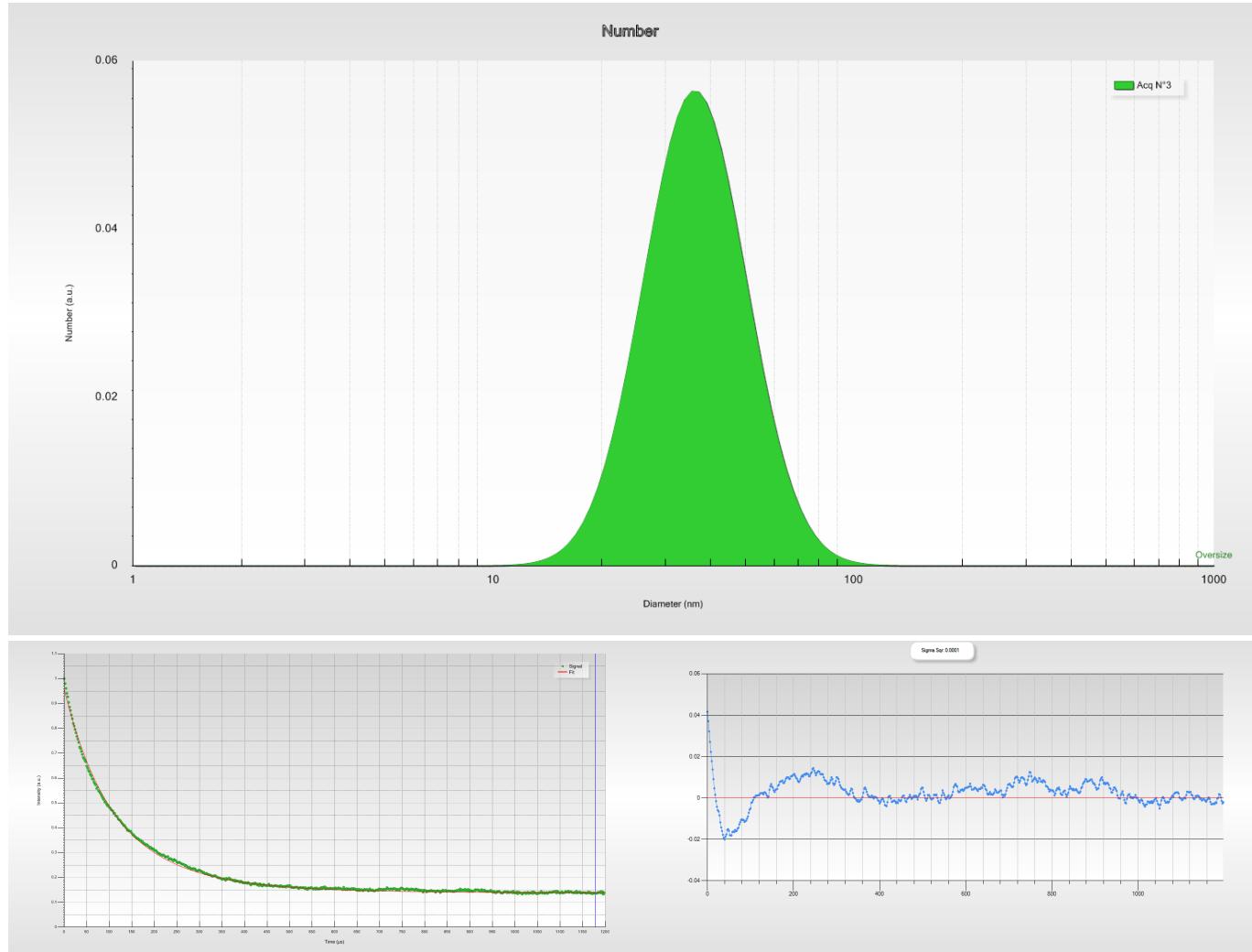


Distribution statistics

Di 10%: 44.73 nm **Di 50%:** 67.81 nm **Di 90%:** 102.81 nm
Mean Intensity: 71.27 nm **PDI** : 0.44184 **Std Dev:** 33.24%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
57.91	0.82	4495.82	85.05372E-013

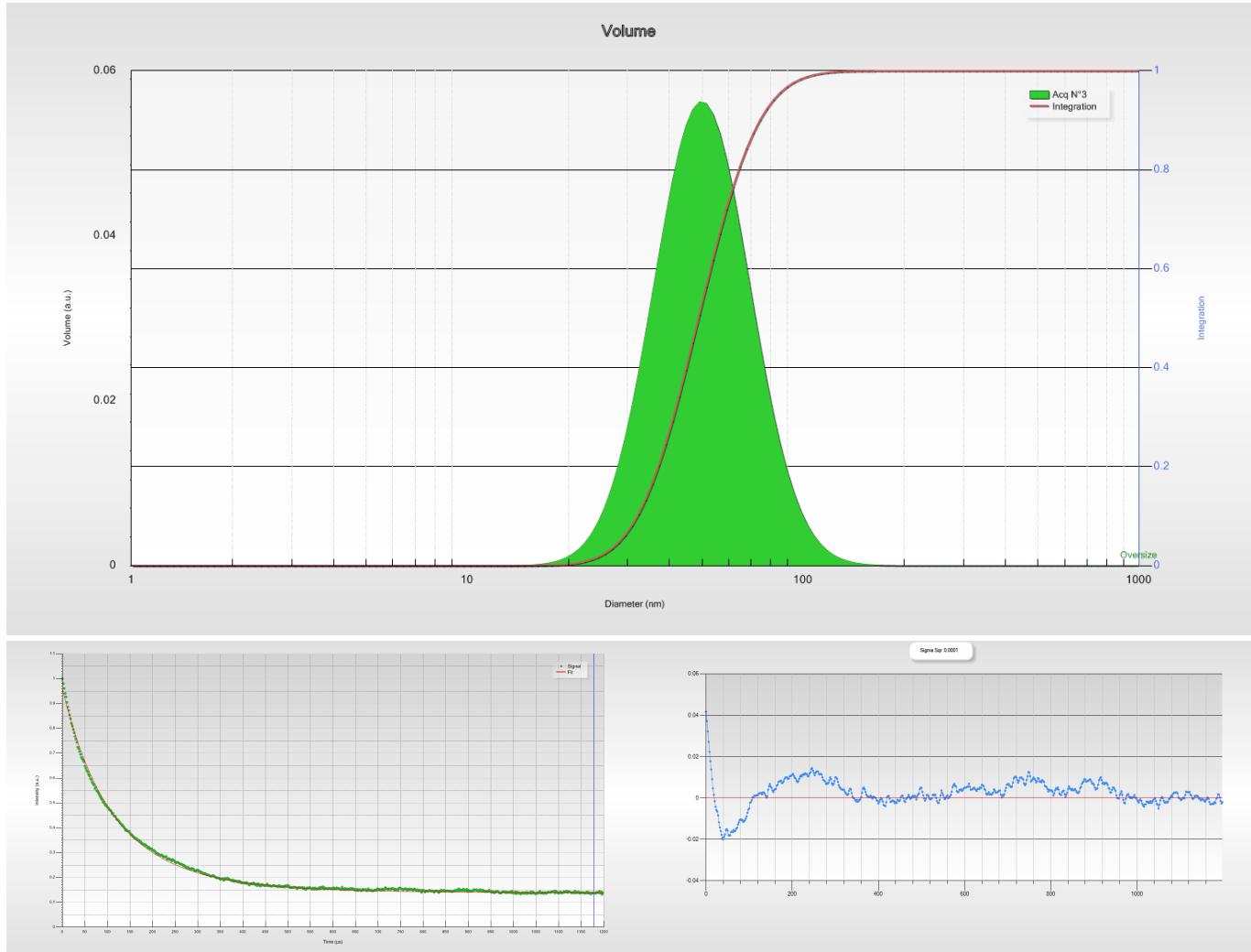


Distribution statistics

Dn 10%: 23.41 nm	Dn 50%: 35.5 nm	Dn 90%: 53.82 nm
Mean Number: 38.19 nm		
PDI : 0.44184		Std Dev: 33.24%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
57.91	0.82	4495.82	85.05372E-013

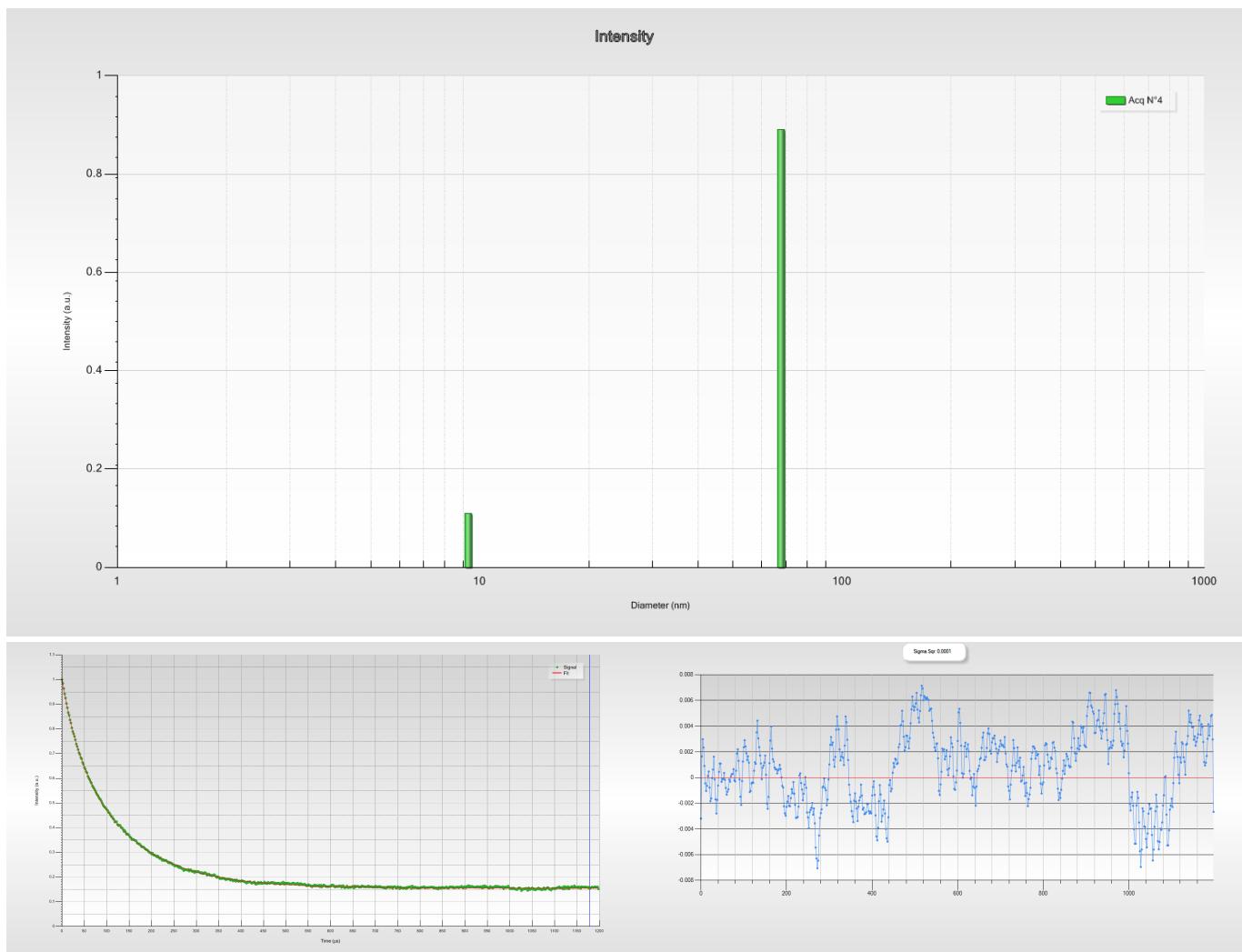


Distribution statistics

D_v 10%: 32.36 nm	D_v 50%: 49.06 nm	D_v 90%: 74.39 nm
Mean Volume: 52.68 nm		
PDI : 0.44184		Std Dev: 33.24%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
57.91	0.82	4495.82	85.05372E-013



Dispersion statistics

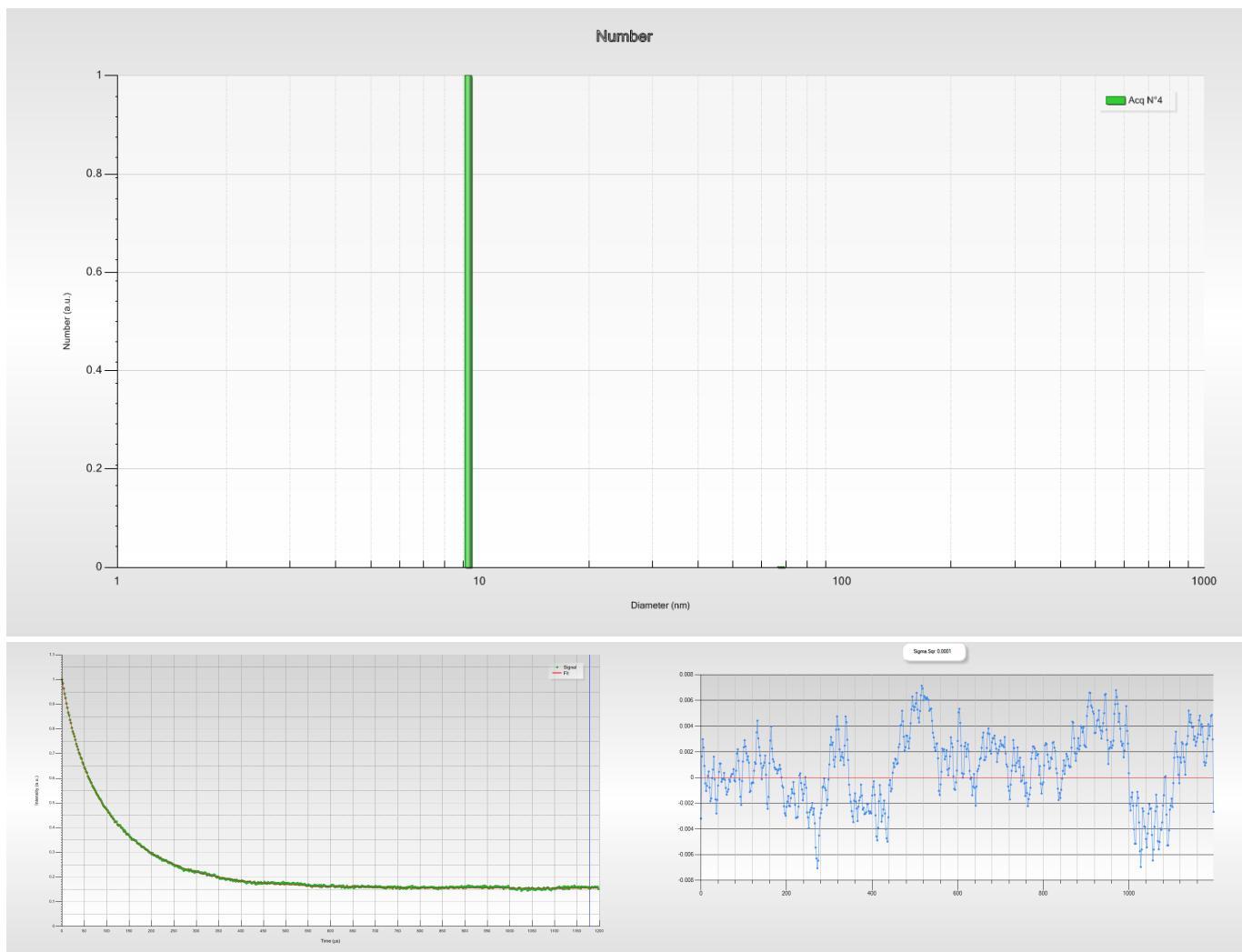
Di 10%: 9.29 nm **Di 50%:** 67.81 nm **Di 90%:** 67.81 nm
Mean Intensity: 61.41 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
9.38	0.1	27760.44	52.51825E-012
67.05	0.82	3882.55	73.45159E-013

Dispersion data

Size (nm)	Intensity	Size (nm)	Intensity
9.29	0.11	67.81	0.89



Dispersion statistics

Dn 10%: 9.29 nm
Mean Number: 9.29 nm

Dn 50%: 9.29 nm

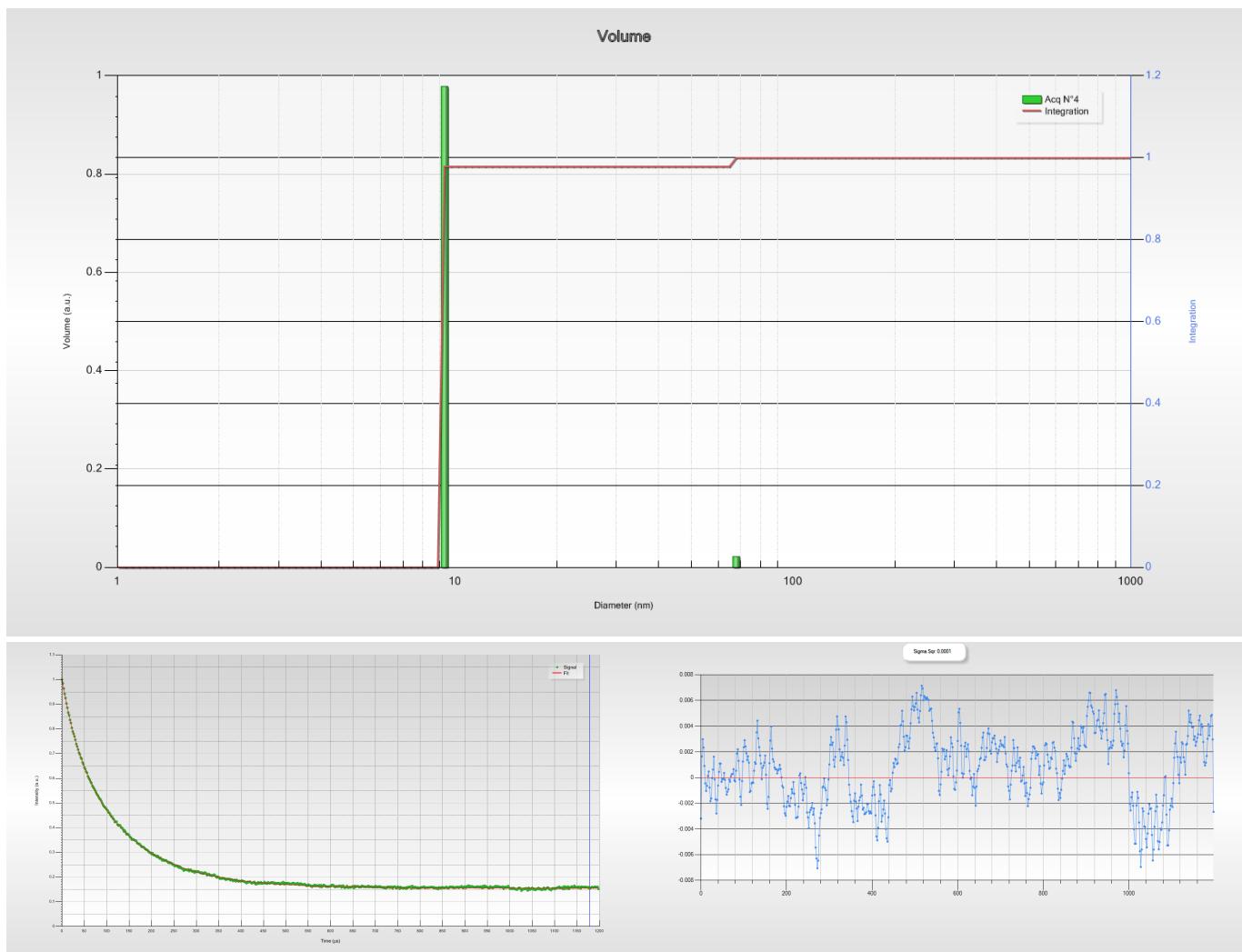
Dn 90%: 9.29 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
9.38	0.1	27760.44	52.51825E-012
67.05	0.82	3882.55	73.45159E-013

Dispersion data

Size (nm)	Number
9.29	1



Dispersion statistics

Dv 10%: 9.29 nm **Dv 50%:** 9.29 nm **Dv 90%:** 9.29 nm
Mean Volume: 10.55 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
9.38	0.1	27760.44	52.51825E-012
67.05	0.82	3882.55	73.45159E-013

Dispersion data

Size (nm)	Volume	Size (nm)	Volume
9.29	0.98	67.81	0.02



Distribution statistics

Di 10%: 40.78 nm **Di 50%:** 59.03 nm **Di 90%:** 89.5 nm
Mean Intensity: 63.17 nm **Std Dev:** 30.91%
PDI : 0.38207

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
52.73	0.82	4936.94	93.39887E-013

**Distribution statistics**

Dn 10%: 23.41 nm
Mean Number: 36.68 nm
PDI : 0.38207

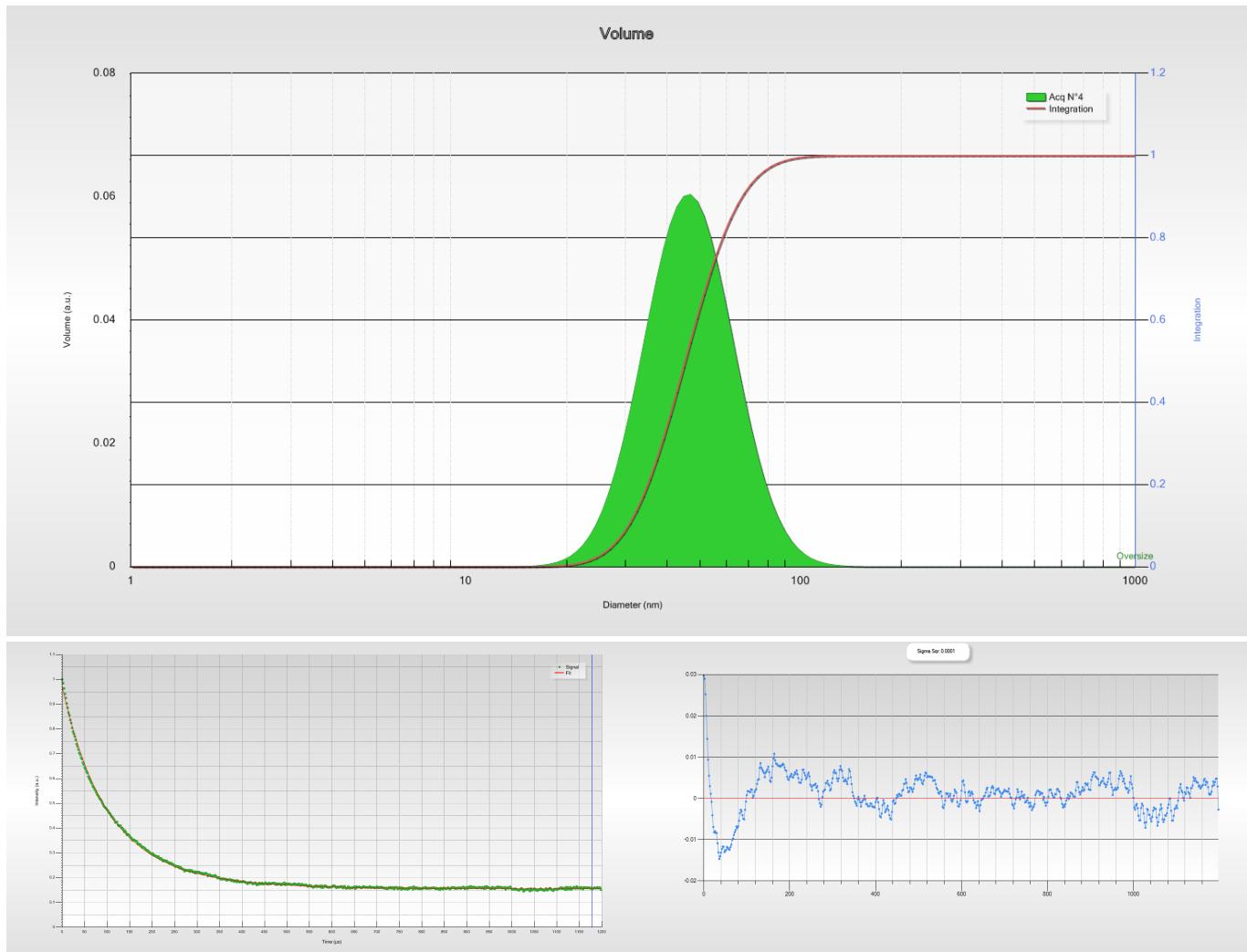
Dn 50%: 35.5 nm

Dn 90%: 51.39 nm

Std Dev: 30.91%

Detected size(s)

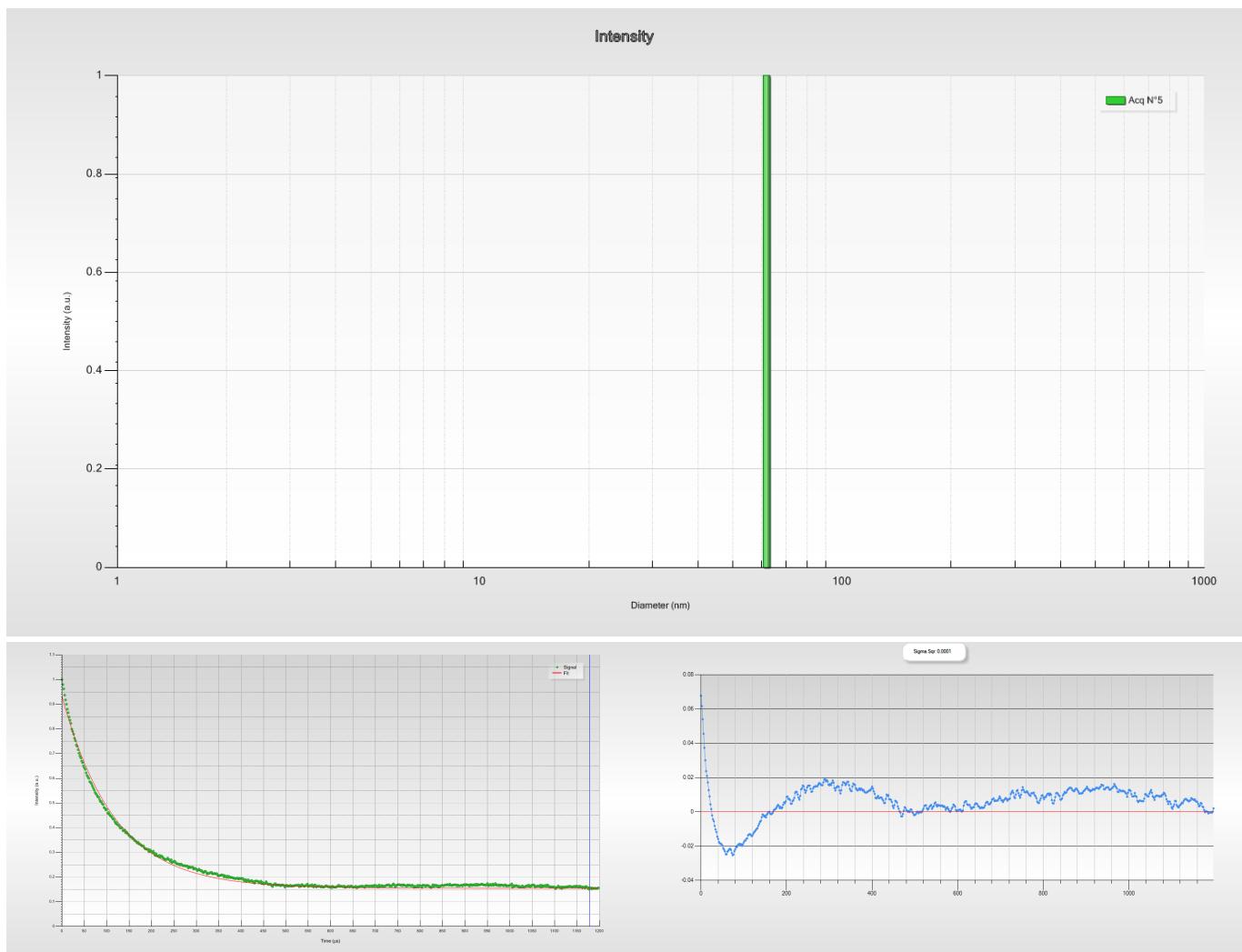
Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
52.73	0.82	4936.94	93.39887E-013

**Distribution statistics**

D_v 10%: 30.9 nm	D_v 50%: 46.85 nm	D_v 90%: 67.81 nm
Mean Volume: 48.51 nm		
PDI : 0.38207		Std Dev: 30.91%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
52.73	0.82	4936.94	93.39887E-013



Dispersion statistics

Di 10%: 61.83 nm
Mean Intensity: 61.83 nm

Di 50%: 61.83 nm

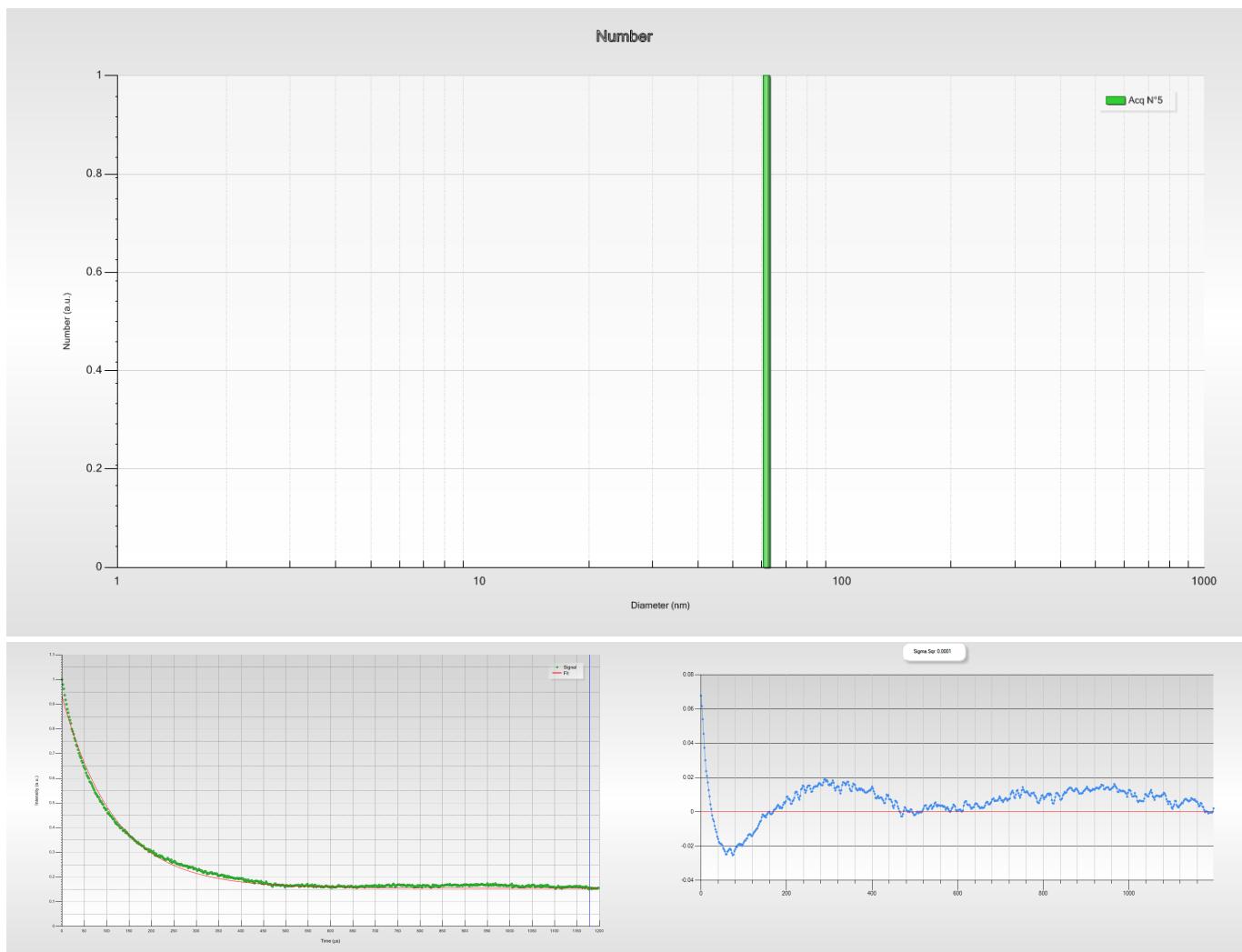
Di 90%: 61.83 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
61.2	0.88	4253.96	80.47808E-013

Dispersion datas

Size (nm)	Intensity
61.83	1



Dispersion statistics

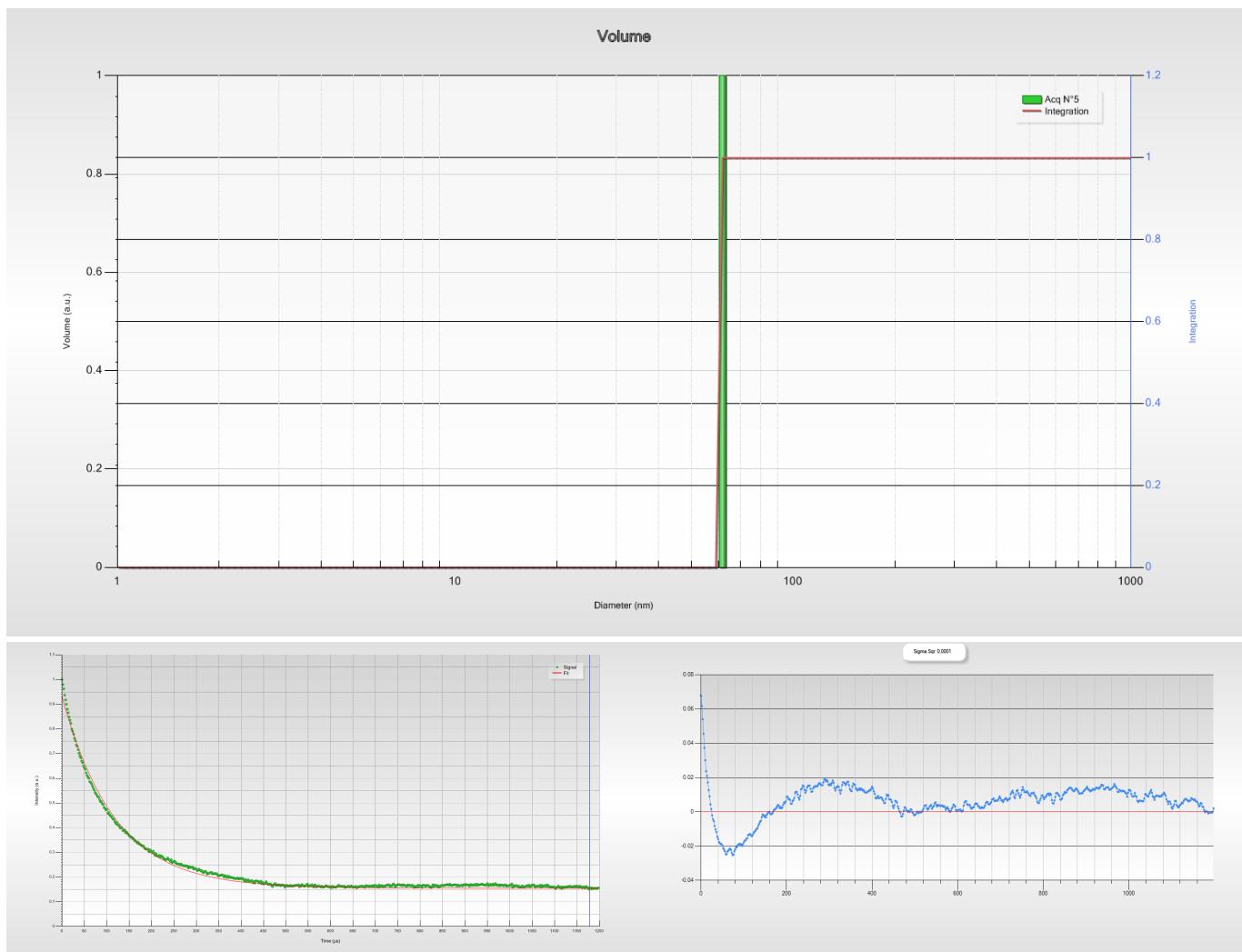
Dn 10%: 61.83 nm **Dn 50%:** 61.83 nm **Dn 90%:** 61.83 nm
Mean Number: 61.83 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
61.2	0.88	4253.96	80.47808E-013

Dispersion datas

Size (nm)	Number
61.83	1



Dispersion statistics

D_v 10%: 61.83 nm D_v 50%: 61.83 nm D_v 90%: 61.83 nm
 Mean Volume: 61.83 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
61.2	0.88	4253.96	80.47808E-013

Dispersion datas

Size (nm)	Volume
61.83	1

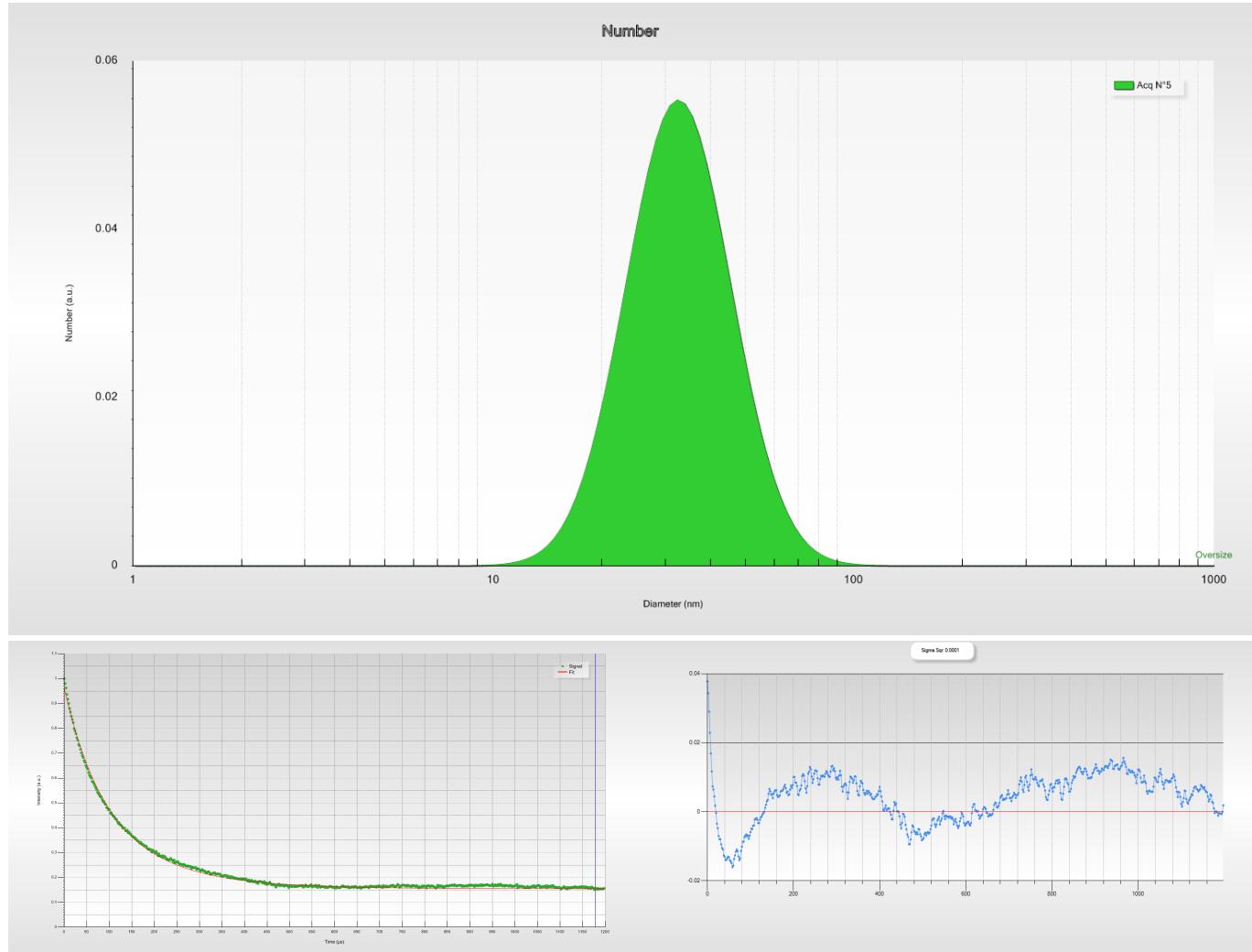


Distribution statistics

Di 10%: 40.78 nm	Di 50%: 61.83 nm	Di 90%: 93.73 nm
Mean Intensity: 65.99 nm		
PDI : 0.4618		Std Dev: 33.98%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
53.14	0.81	4899.26	92.68613E-013

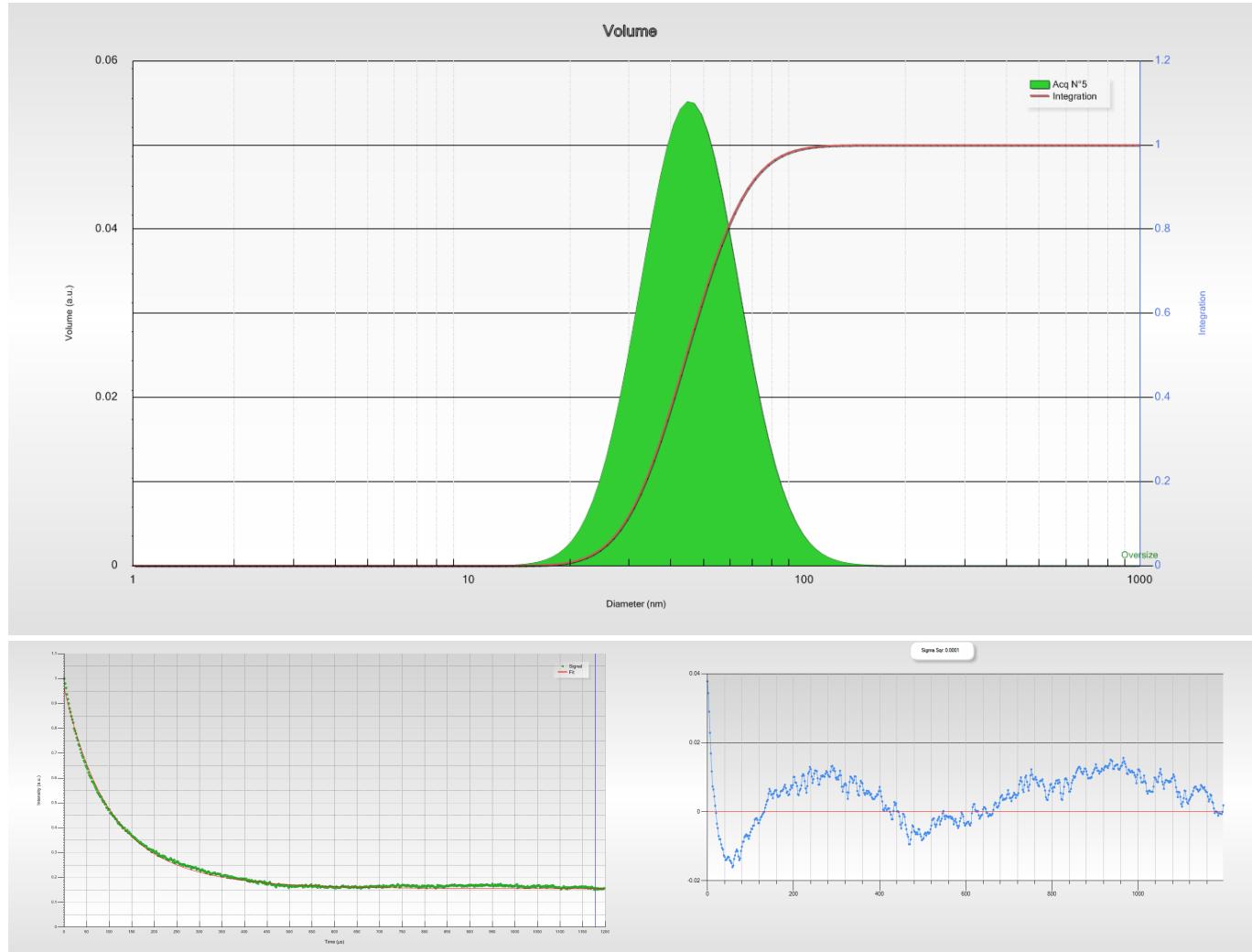


Distribution statistics

Dn 10%: 21.35 nm	Dn 50%: 32.36 nm	Dn 90%: 49.06 nm
Mean Number: 34.4 nm		
PDI : 0.4618		Std Dev: 33.98%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
53.14	0.81	4899.26	92.68613E-013



Distribution statistics

D_v 10%: 29.5 nm	D_v 50%: 44.73 nm	D_v 90%: 71.02 nm
Mean Volume: 48.07 nm		
PDI : 0.4618		Std Dev: 33.98%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
53.14	0.81	4899.26	92.68613E-013