

Sample

Name : GNP_11.4.16_2.5_1k_2
Mesured On : 11.04.2016 18:40
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	: 68.1 %	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
------------------	--------	-----------------------	--------

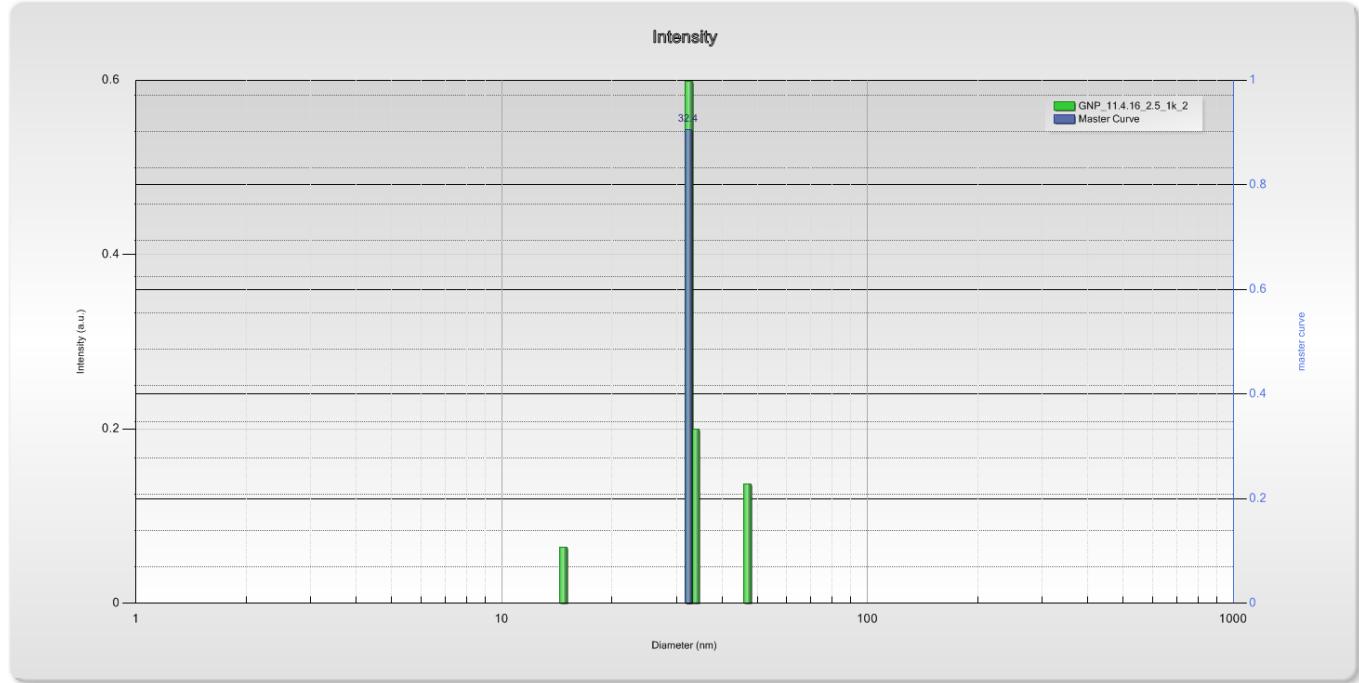
Algorithm

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

Measurement

Average count rate : 2319 kcps
Number of rejected : 0

Duration : 00:05:10
Number of modified : 0



Dispersion statistics

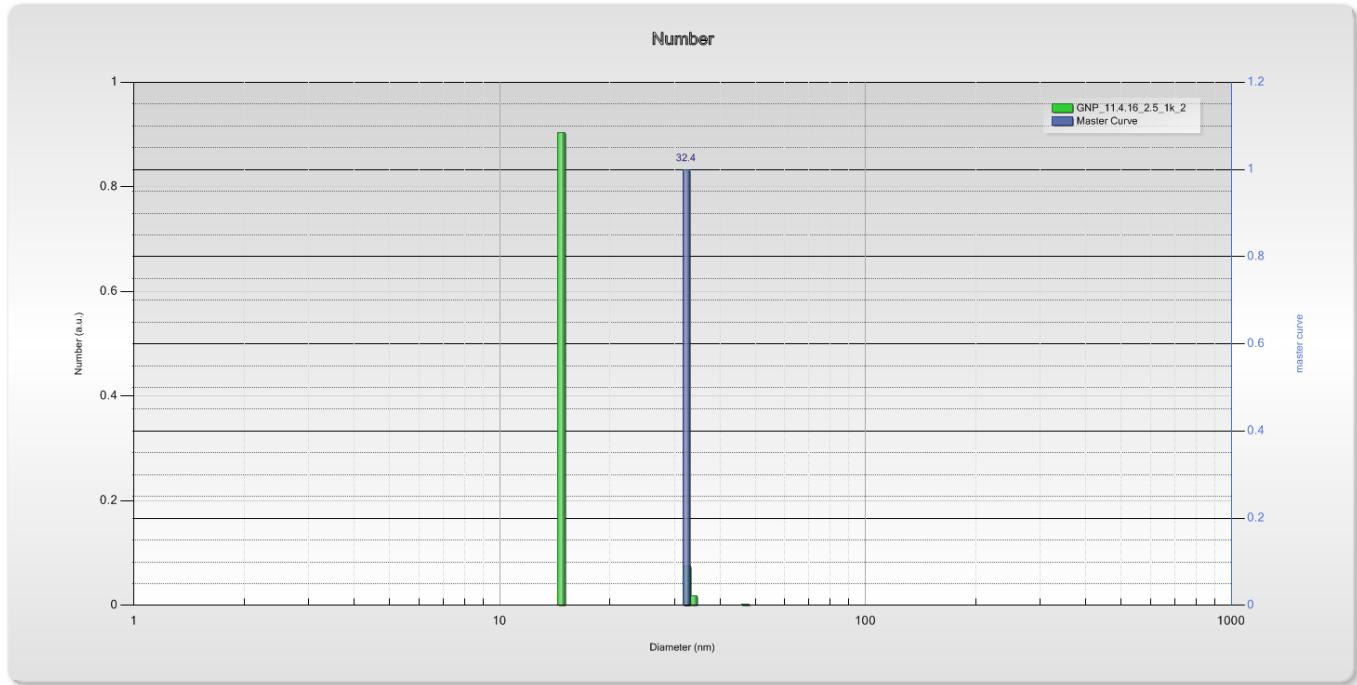
Di 10%: 32.36 nm

Di 50%: 32.36 nm

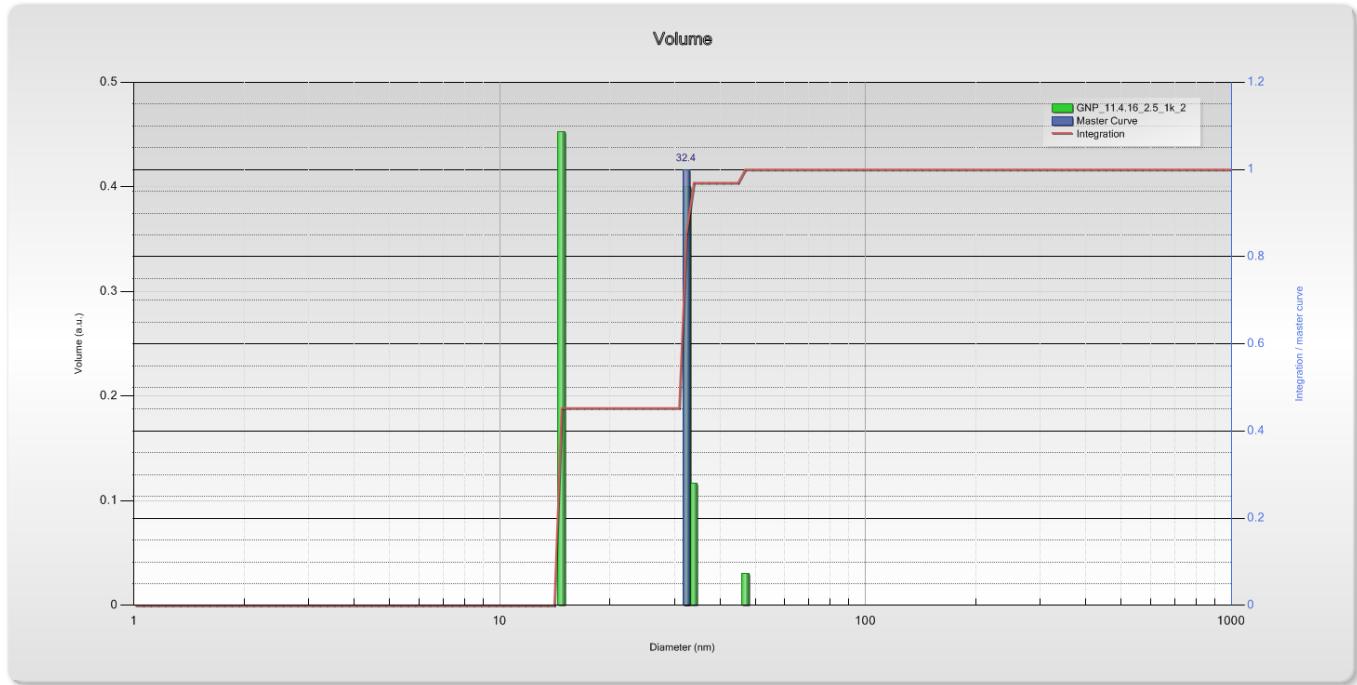
Di 90%: 46.85 nm

Dispersion data

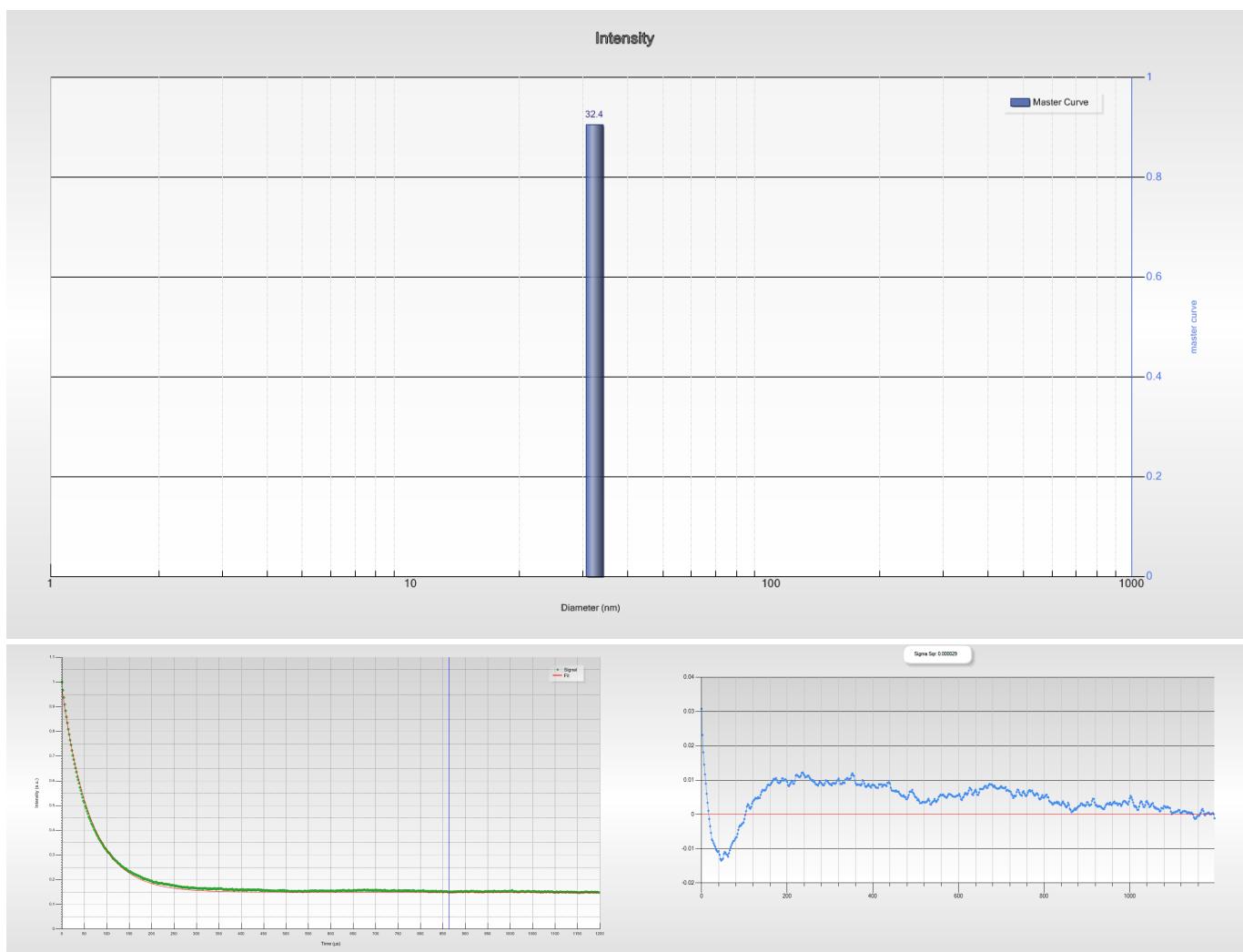
Size (nm)	Intensity						
14.75	0.06	33.89	0.2				
32.36	0.6	46.85	0.14				

***Dispersion statistics******Dn 10%: 14.75 nm******Dn 50%: 14.75 nm******Dn 90%: 14.75 nm******Dispersion data***

Size (nm)	Number	Size (nm)	Number	Size (nm)	Number
14.75	0.9	32.36	0.08	33.89	0.02

**Dispersion statistics****D_v 10%: 14.75 nm****D_v 50%: 32.36 nm****D_v 90%: 33.89 nm****Dispersion data**

Size (nm)	Volume						
14.75	0.45	33.89	0.12				
32.36	0.4	46.85	0.03				



Dispersion statistics

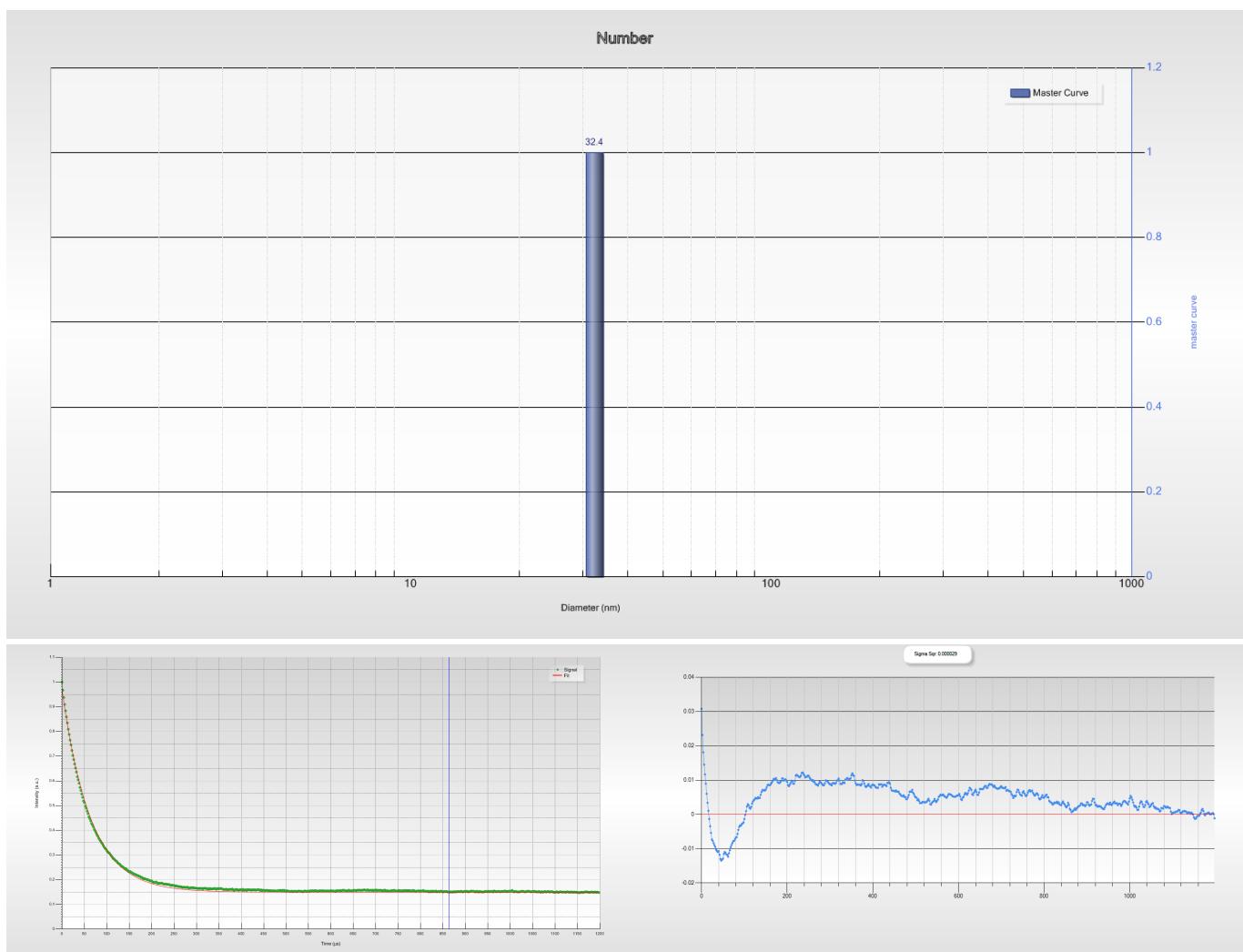
Di 10%: 32.36 nm **Di 50%:** 32.36 nm **Di 90%:** 32.36 nm
Mean Intensity: 32.36 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
32.99	0.91	7874.79	14.89782E-012

Dispersion datas

Size (nm)	Intensity
32.36	1



Dispersion statistics

Dn 10%: 32.36 nm
Mean Number: 32.36 nm

Dn 50%: 32.36 nm

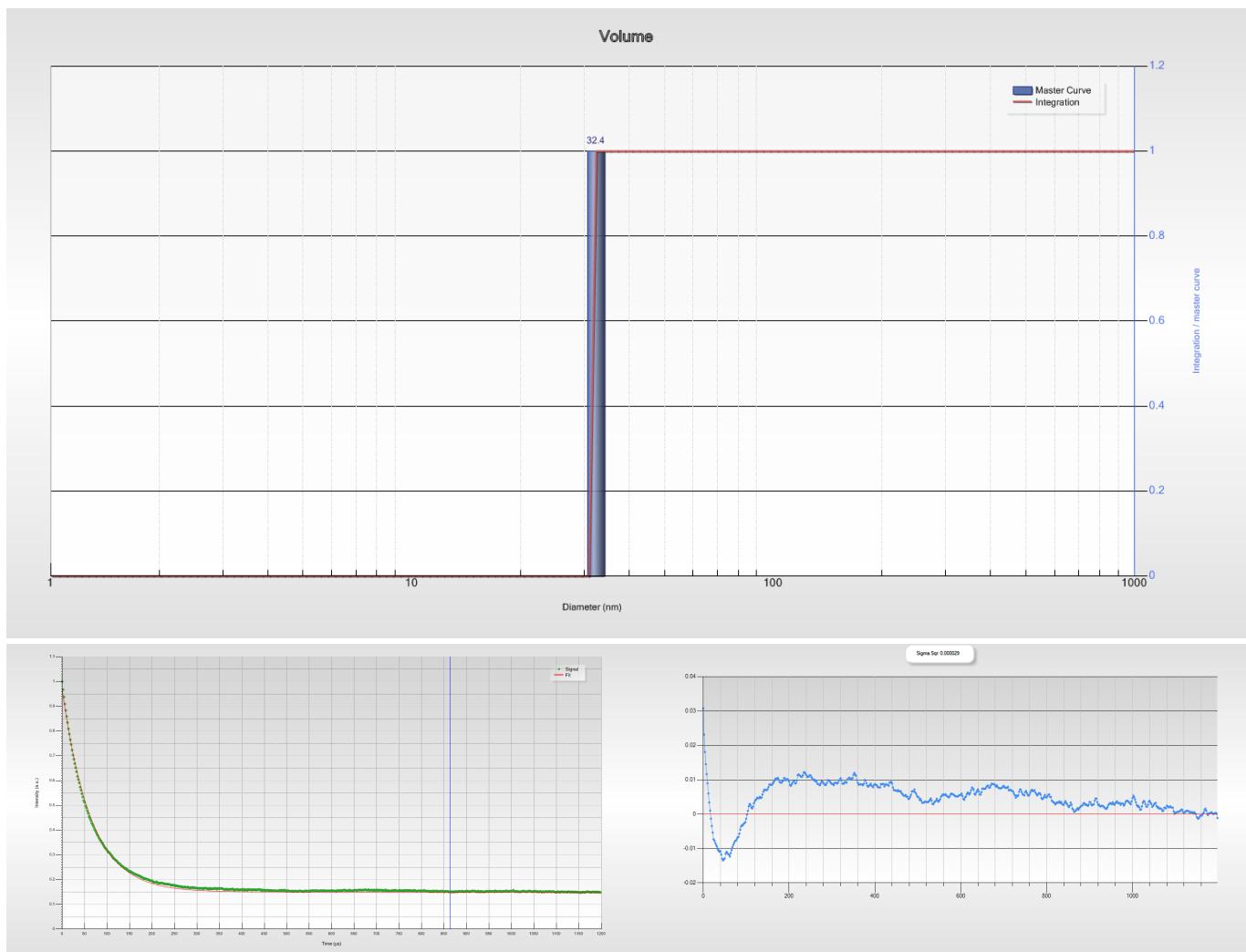
Dn 90%: 32.36 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
32.99	0.91	7874.79	14.89782E-012

Dispersion datas

Size (nm)	Number
32.36	1



Dispersion statistics

D_v 10%: 32.36 nm
Mean Volume: 32.36 nm

D_v 50%: 32.36 nm

D_v 90%: 32.36 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
32.99	0.91	7874.79	14.89782E-012

Dispersion datas

Size (nm)	Volume
32.36	1



Distribution statistics

Di 10%: 23.41 nm	Di 50%: 33.89 nm	Di 90%: 49.06 nm
Mean Intensity: 35.61 nm		
PDI : 0.36466		Std Dev: 30.19%

Detected size(s)

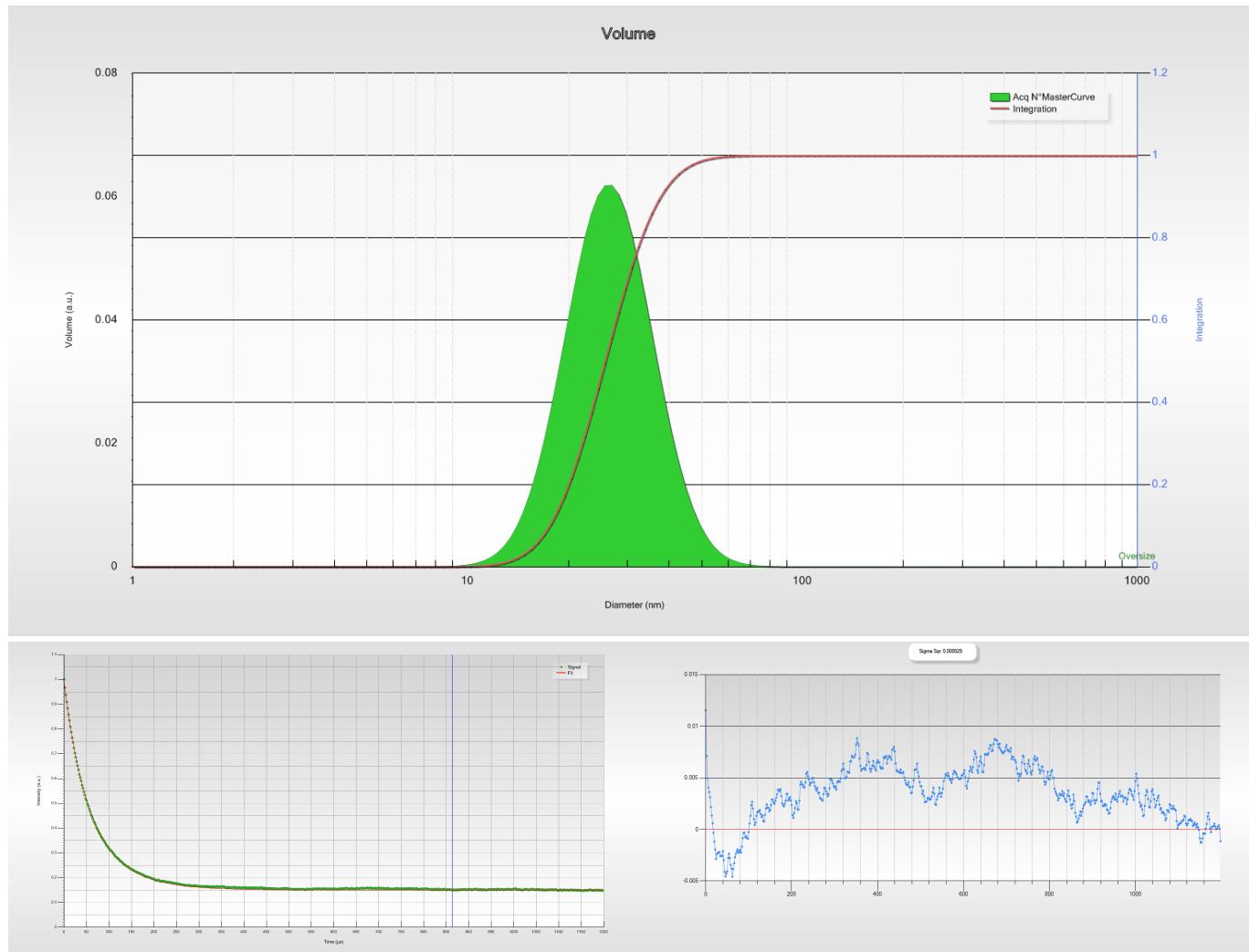
Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
29.9	0.84	8687.92	16.43615E-012

**Distribution statistics**

Dn 10%: 14.08 nm	Dn 50%: 20.38 nm	Dn 90%: 29.5 nm
Mean Number: 21.13 nm		
PDI : 0.36466		Std Dev: 30.19%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
29.9	0.84	8687.92	16.43615E-012

**Distribution statistics**

D_v 10%: 17.74 nm
Mean Volume: 27.56 nm
PDI : 0.36466

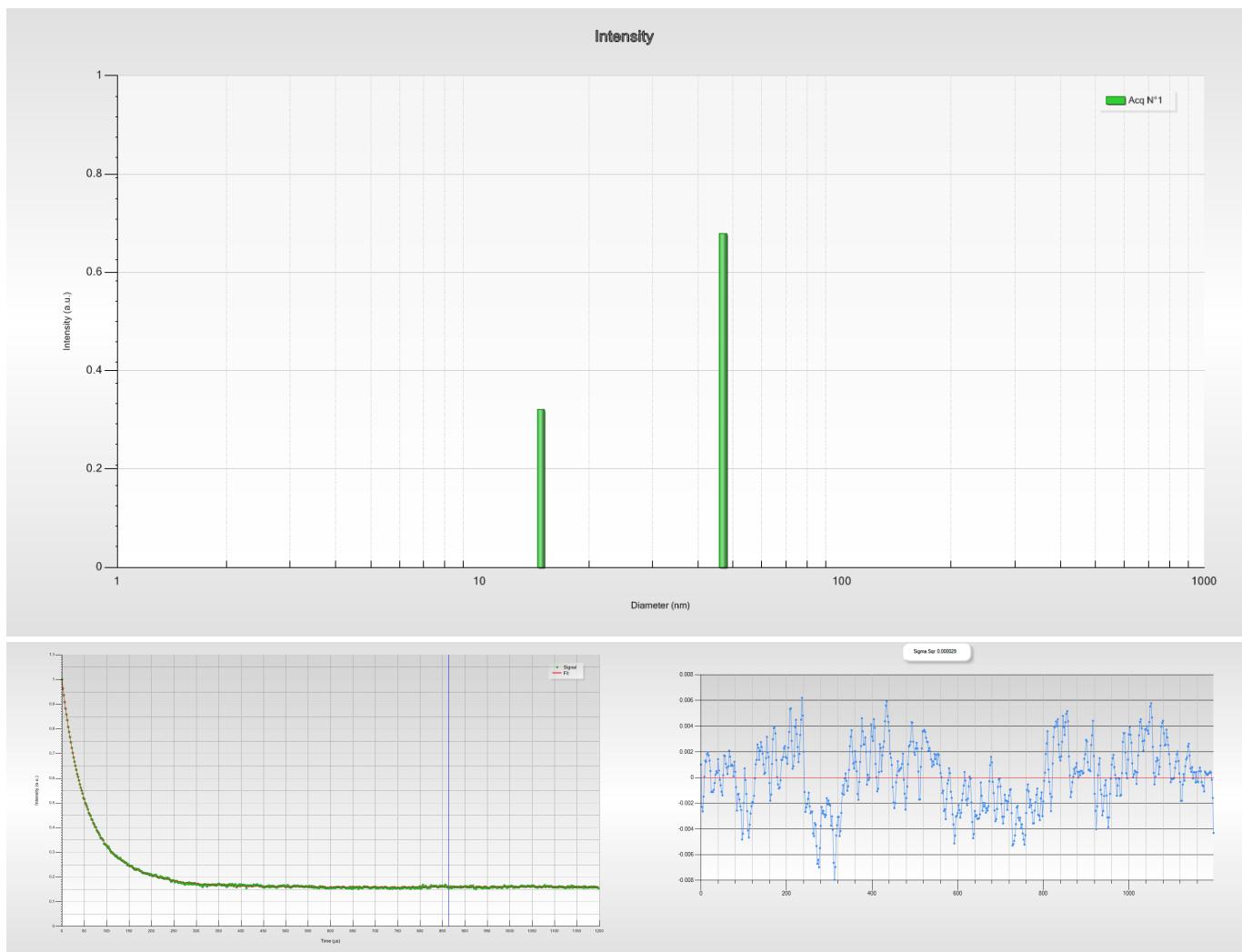
D_v 50%: 26.9 nm

D_v 90%: 38.94 nm

Std Dev: 30.19%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
29.9	0.84	8687.92	16.43615E-012



Dispersion statistics

Di 10%: 14.75 nm
Mean Intensity: 36.54 nm

Di 50%: 46.85 nm

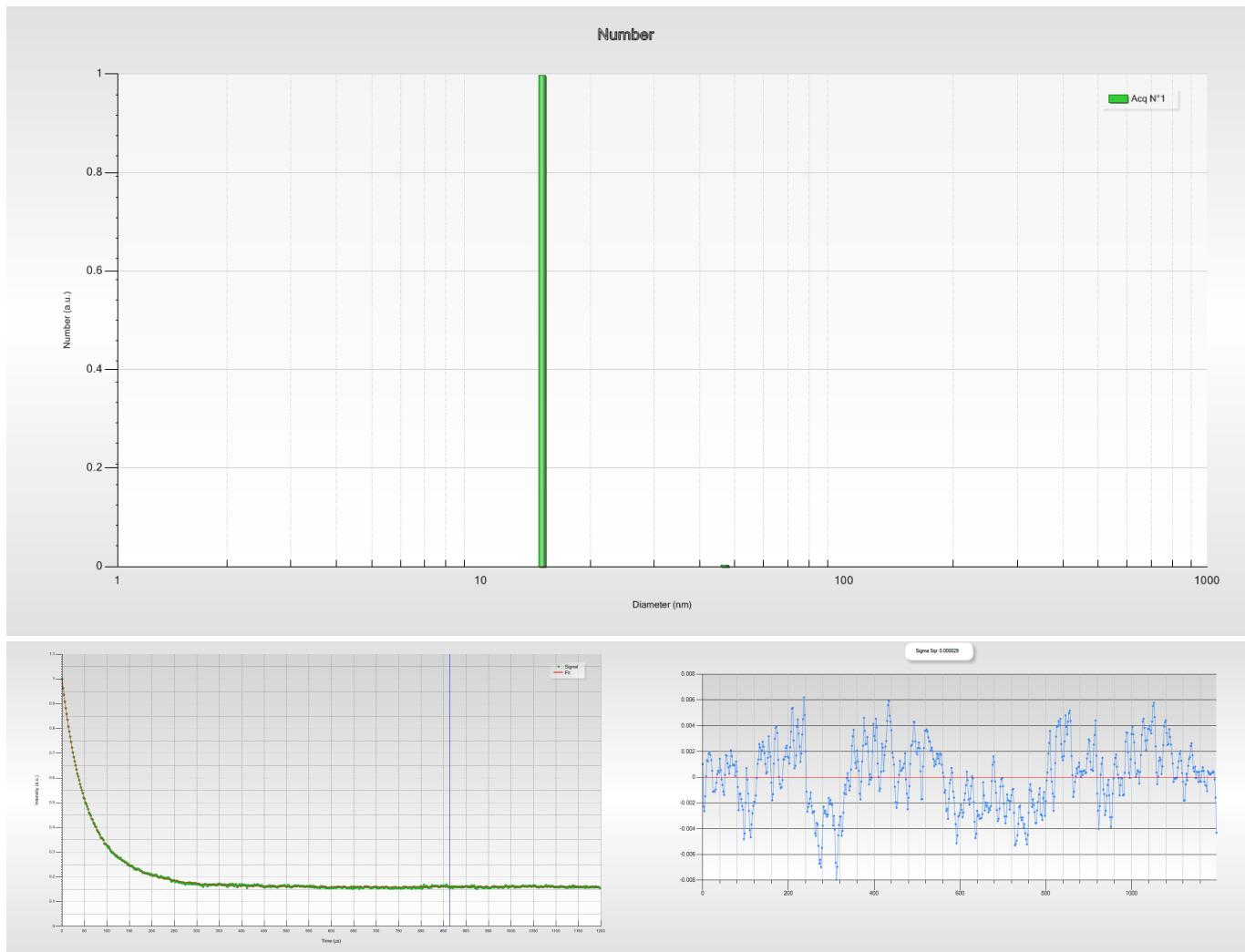
Di 90%: 46.85 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
14.75	0.29	17611.61	33.31831E-012
47.62	0.62	5455.36	10.32065E-012

Dispersion data

Size (nm)	Intensity	Size (nm)	Intensity
14.75	0.32	46.85	0.68



Dispersion statistics

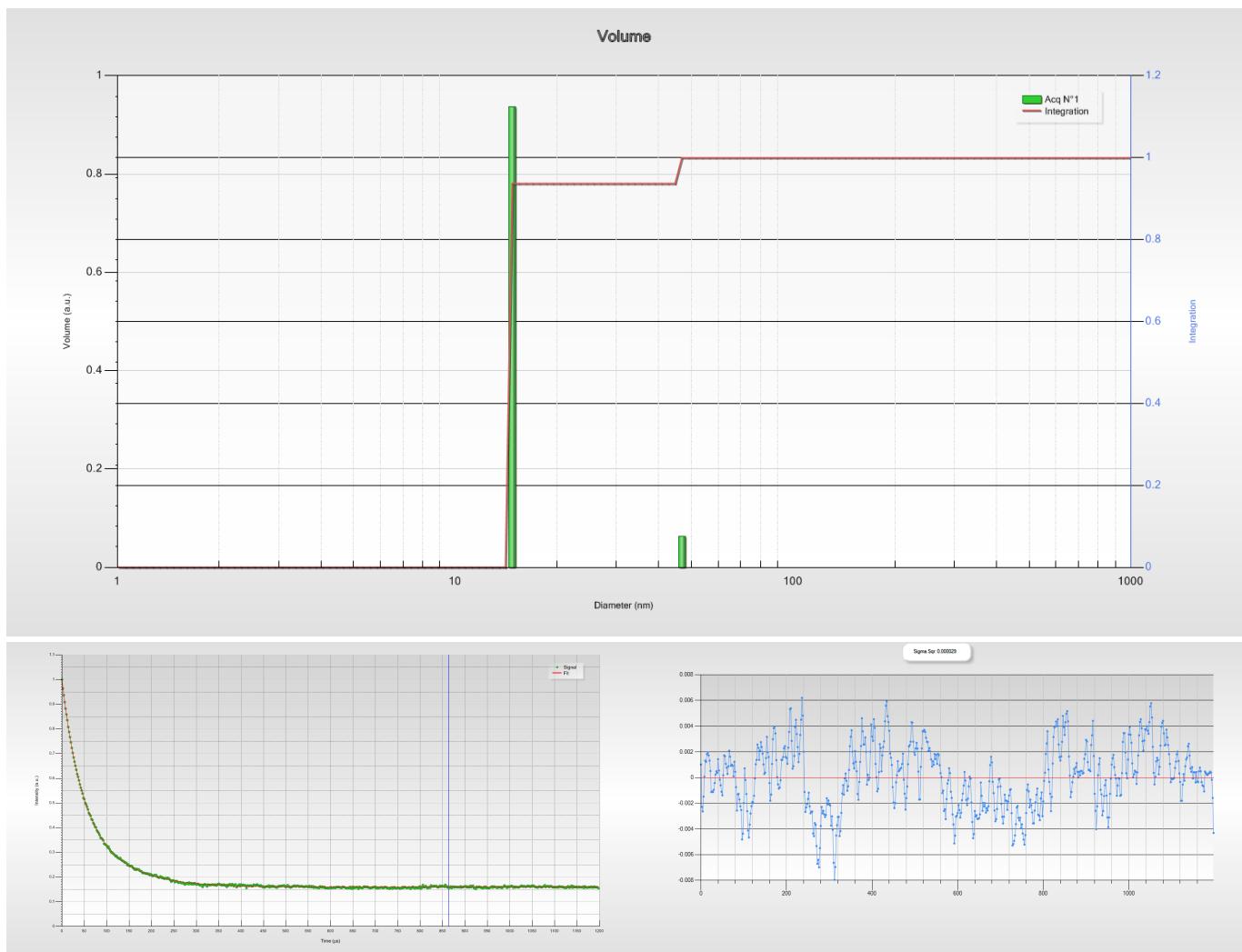
Dn 10%: 14.75 nm Dn 50%: 14.75 nm Dn 90%: 14.75 nm
 Mean Number: 14.81 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
14.75	0.29	17611.61	33.31831E-012
47.62	0.62	5455.36	10.32065E-012

Dispersion data

Size (nm)	Number
14.75	1



Dispersion statistics

D_v 10%: 14.75 nm **D_v 50%:** 14.75 nm **D_v 90%:** 14.75 nm
Mean Volume: 16.77 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
14.75	0.29	17611.61	33.31831E-012
47.62	0.62	5455.36	10.32065E-012

Dispersion data

Size (nm)	Volume	Size (nm)	Volume
14.75	0.94	46.85	0.06

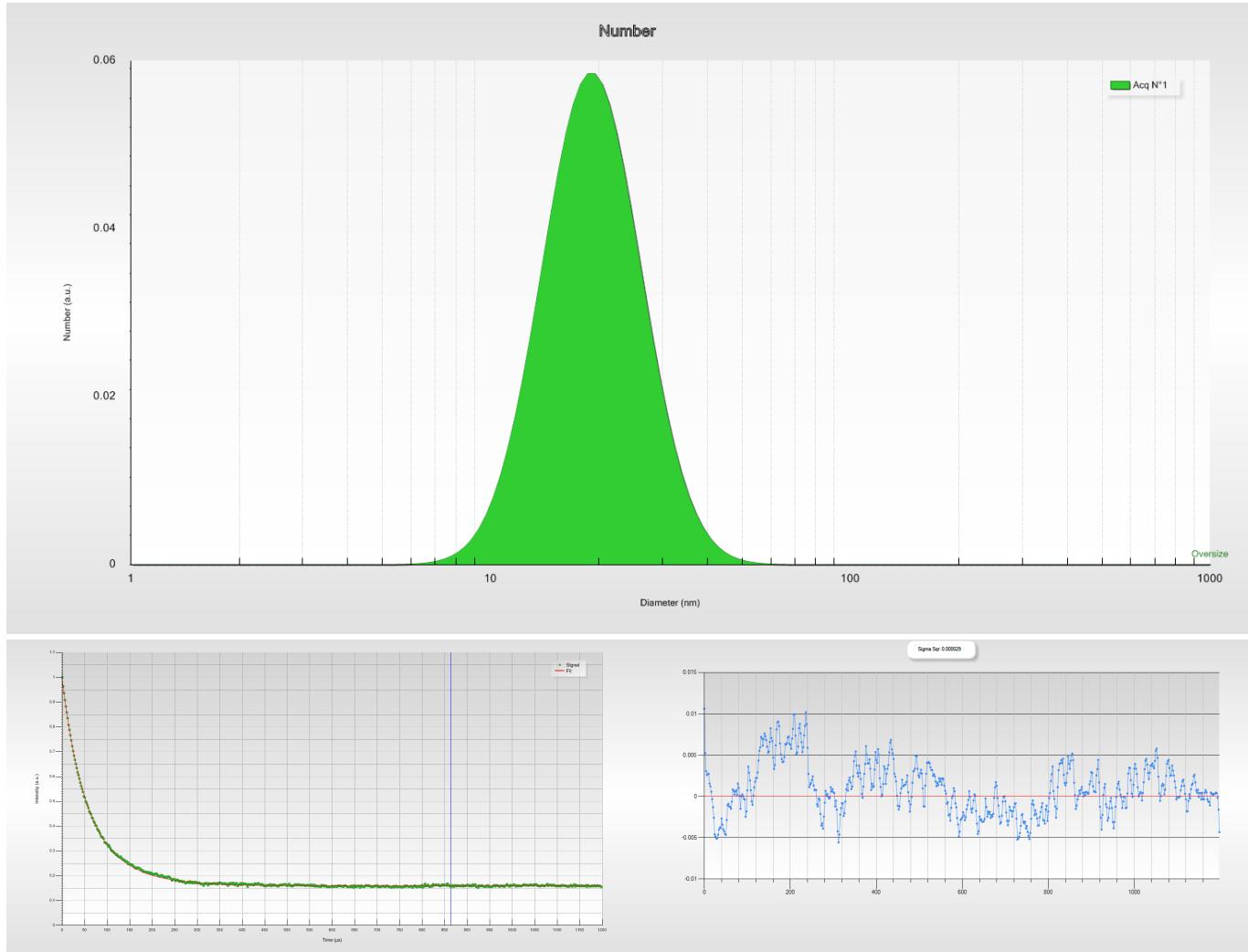


Distribution statistics

Di 10%: 23.41 nm **Di 50%:** 33.89 nm **Di 90%:** 51.39 nm
Mean Intensity: 35.88 nm **Std Dev:** 32.04%
PDI : 0.41062

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
29.5	0.83	8805.24	16.65808E-012

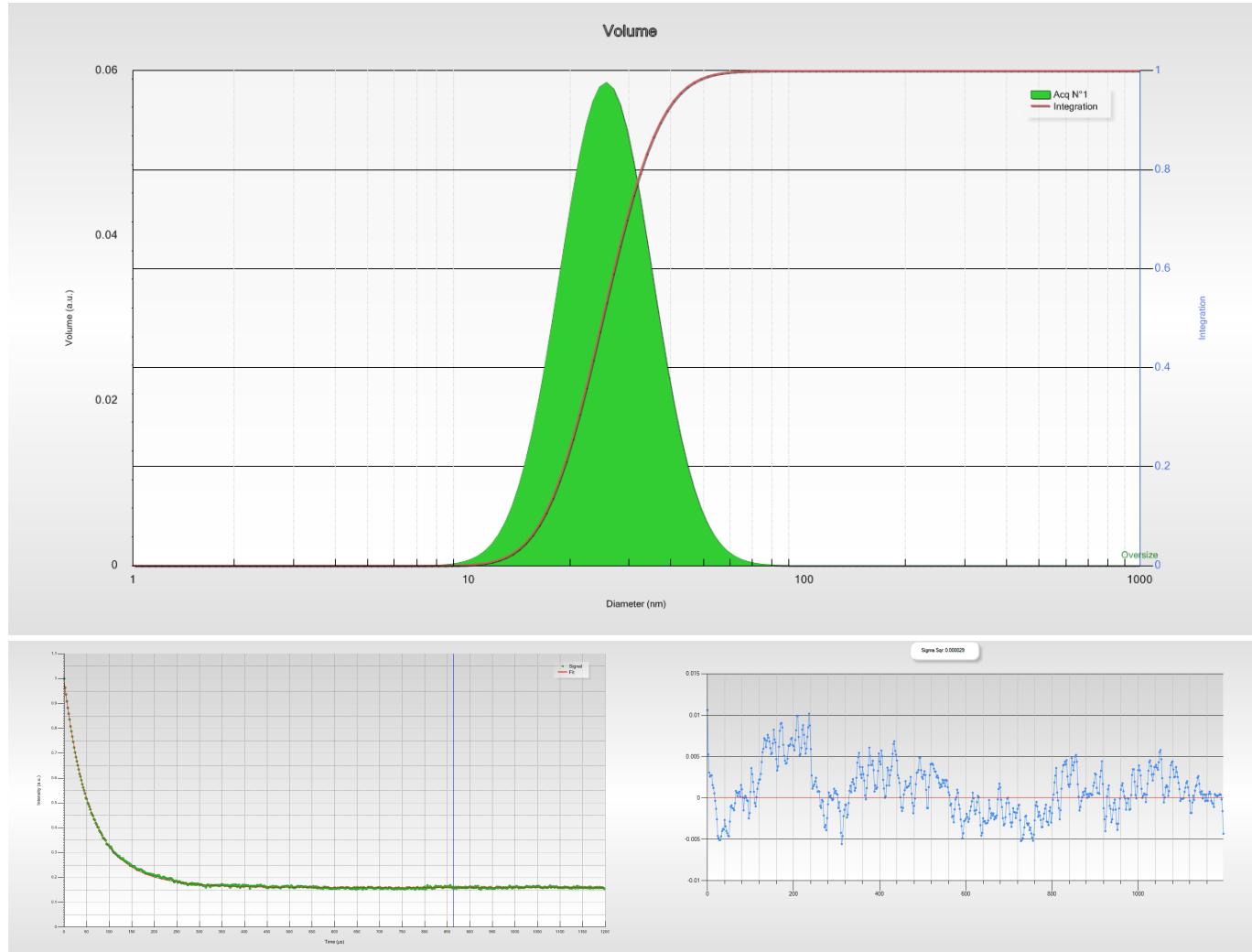


Distribution statistics

Dn 10%: 12.84 nm **Dn 50%:** 19.46 nm **Dn 90%:** 28.17 nm
Mean Number: 19.99 nm **Std Dev:** 32.04%
PDI : 0.41062

Detected size(s)

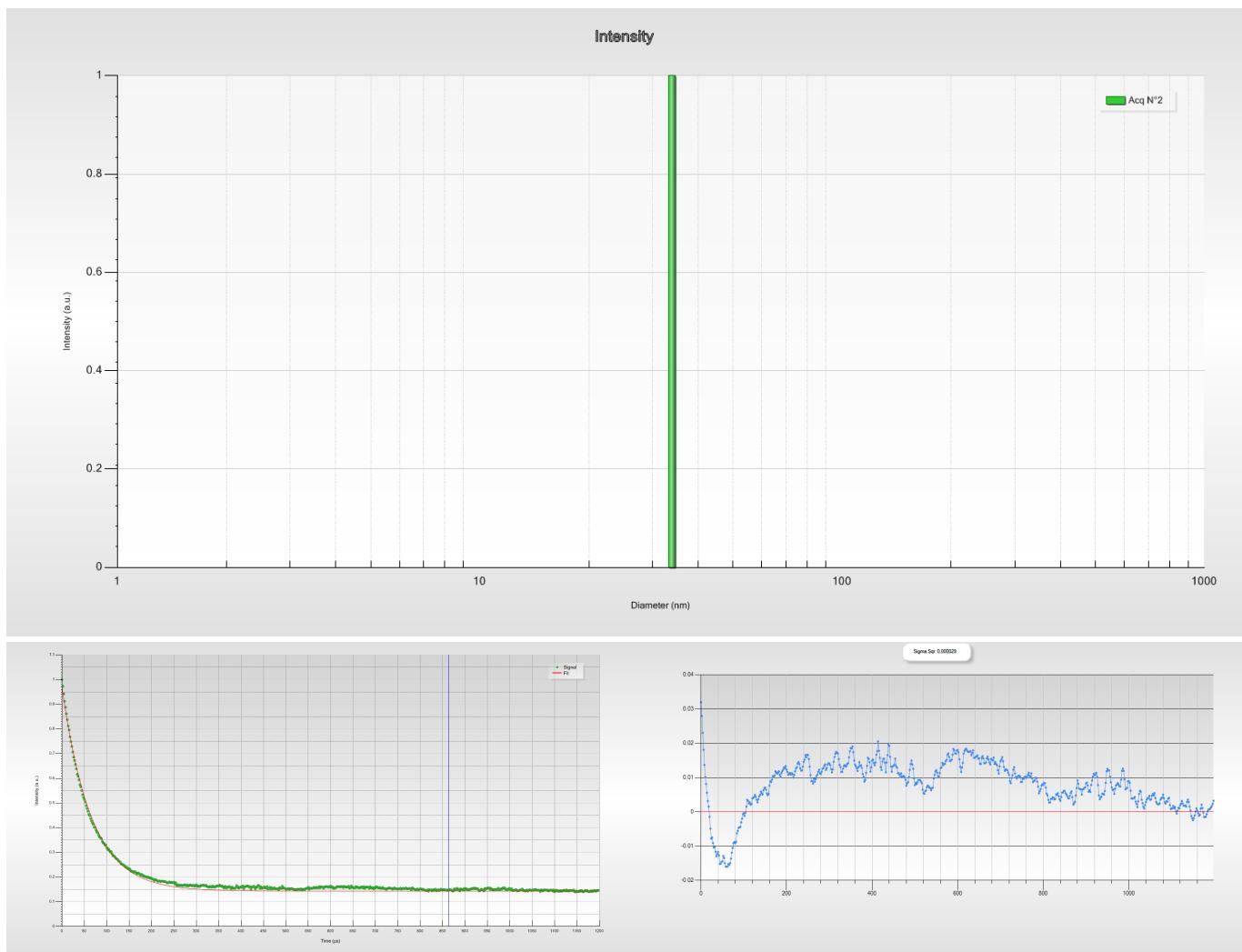
Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
29.5	0.83	8805.24	16.65808E-012

**Distribution statistics**

D_v 10%: 16.94 nm	D_v 50%: 25.68 nm	D_v 90%: 38.94 nm
Mean Volume: 26.91 nm		
PDI : 0.41062		Std Dev: 32.04%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
29.5	0.83	8805.24	16.65808E-012



Dispersion statistics

Di 10%: 33.89 nm
Mean Intensity: 33.89 nm

Di 50%: 33.89 nm

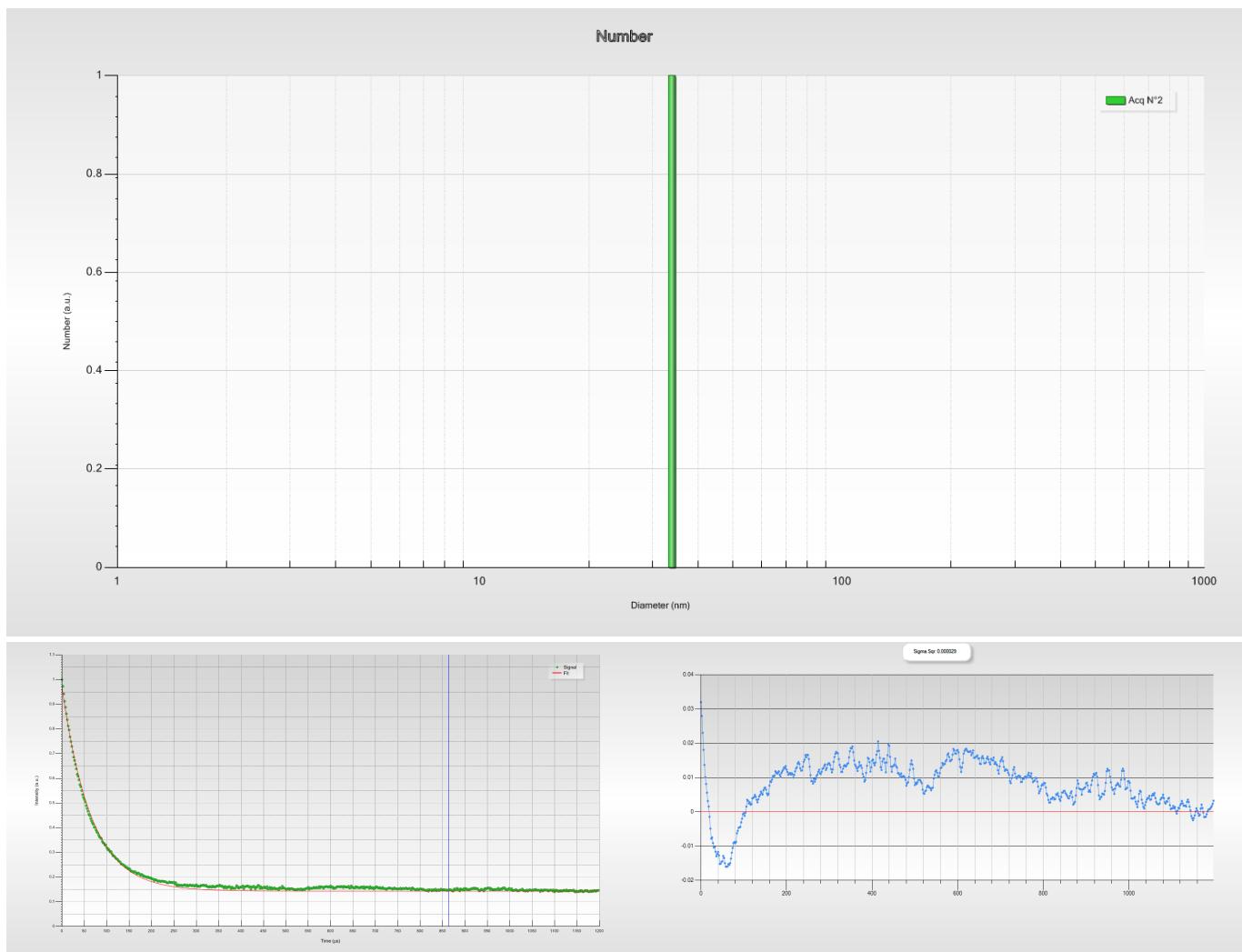
Di 90%: 33.89 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
33.9	0.91	7662.24	14.49573E-012

Dispersion datas

Size (nm)	Intensity
33.89	1



Dispersion statistics

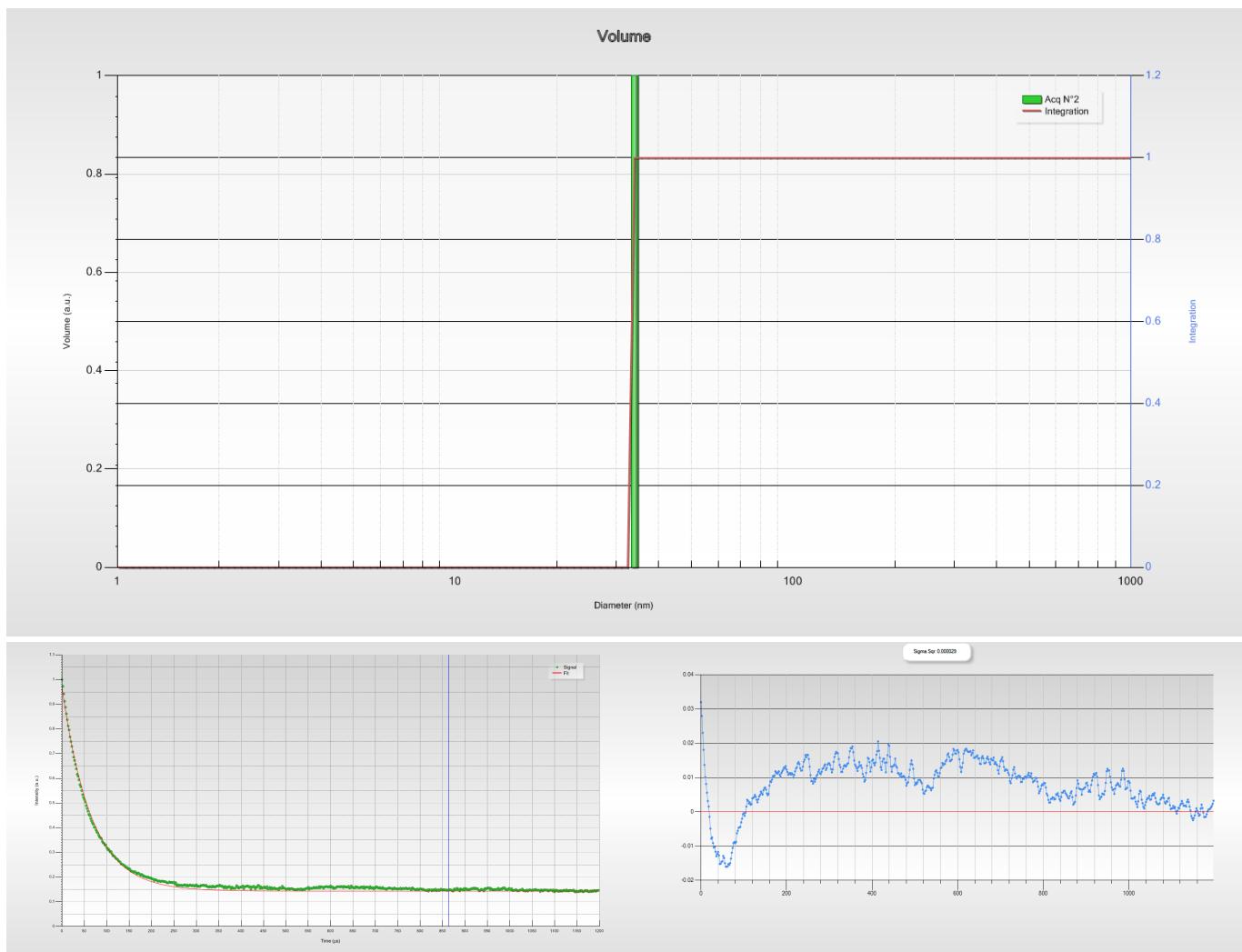
Dn 10%: 33.89 nm **Dn 50%:** 33.89 nm **Dn 90%:** 33.89 nm
Mean Number: 33.89 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
33.9	0.91	7662.24	14.49573E-012

Dispersion datas

Size (nm)	Number
33.89	1



Dispersion statistics

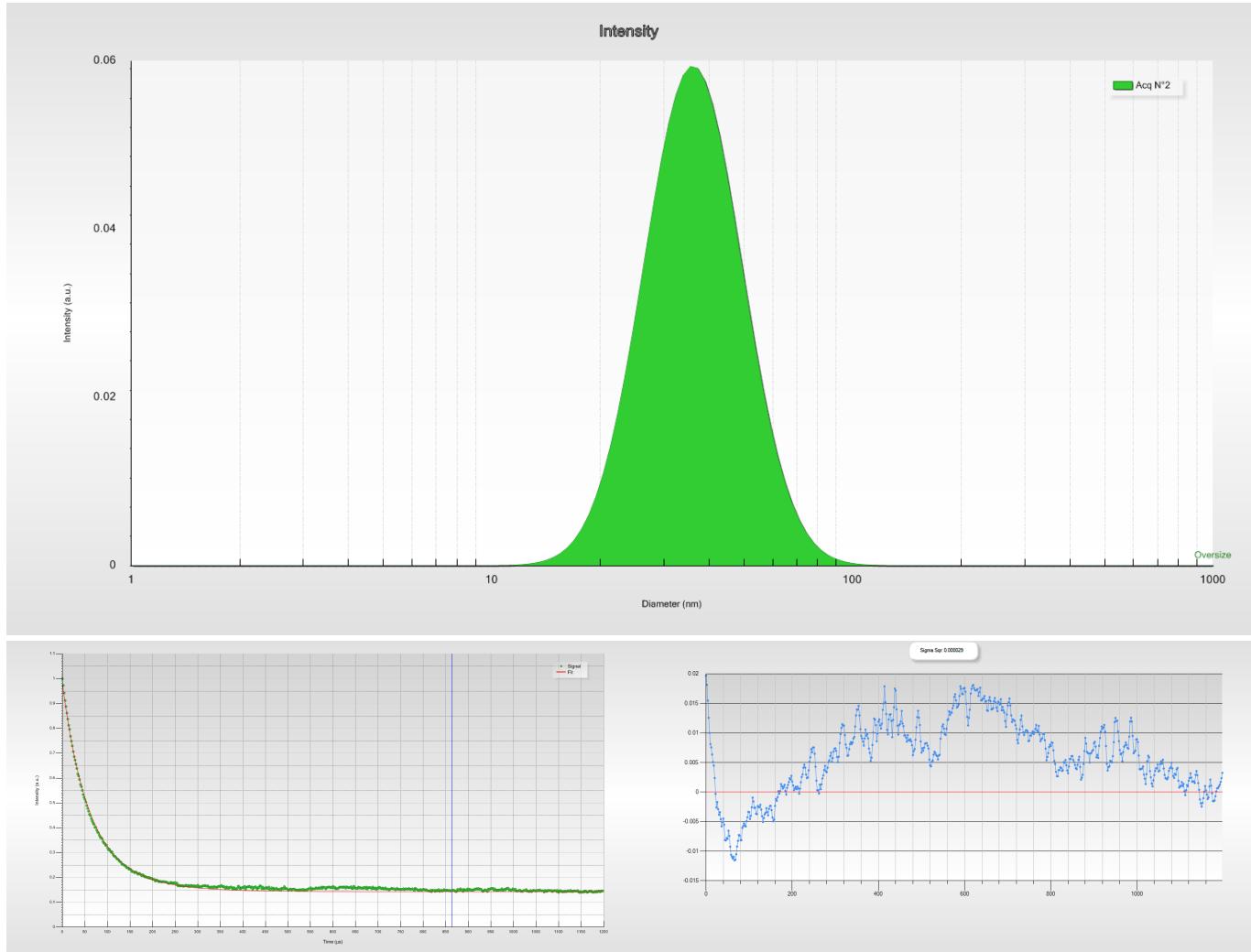
D_v 10%: 33.89 nm **D_v 50%:** 33.89 nm **D_v 90%:** 33.89 nm
Mean Volume: 33.89 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
33.9	0.91	7662.24	14.49573E-012

Dispersion datas

Size (nm)	Volume
33.89	1



Distribution statistics

Di 10%: 24.52 nm **Di 50%:** 35.5 nm **Di 90%:** 53.82 nm
Mean Intensity: 37.82 nm **Std Dev:** 31.81%
PDI : 0.40484

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
31.18	0.84	8331.74	15.7623E-012

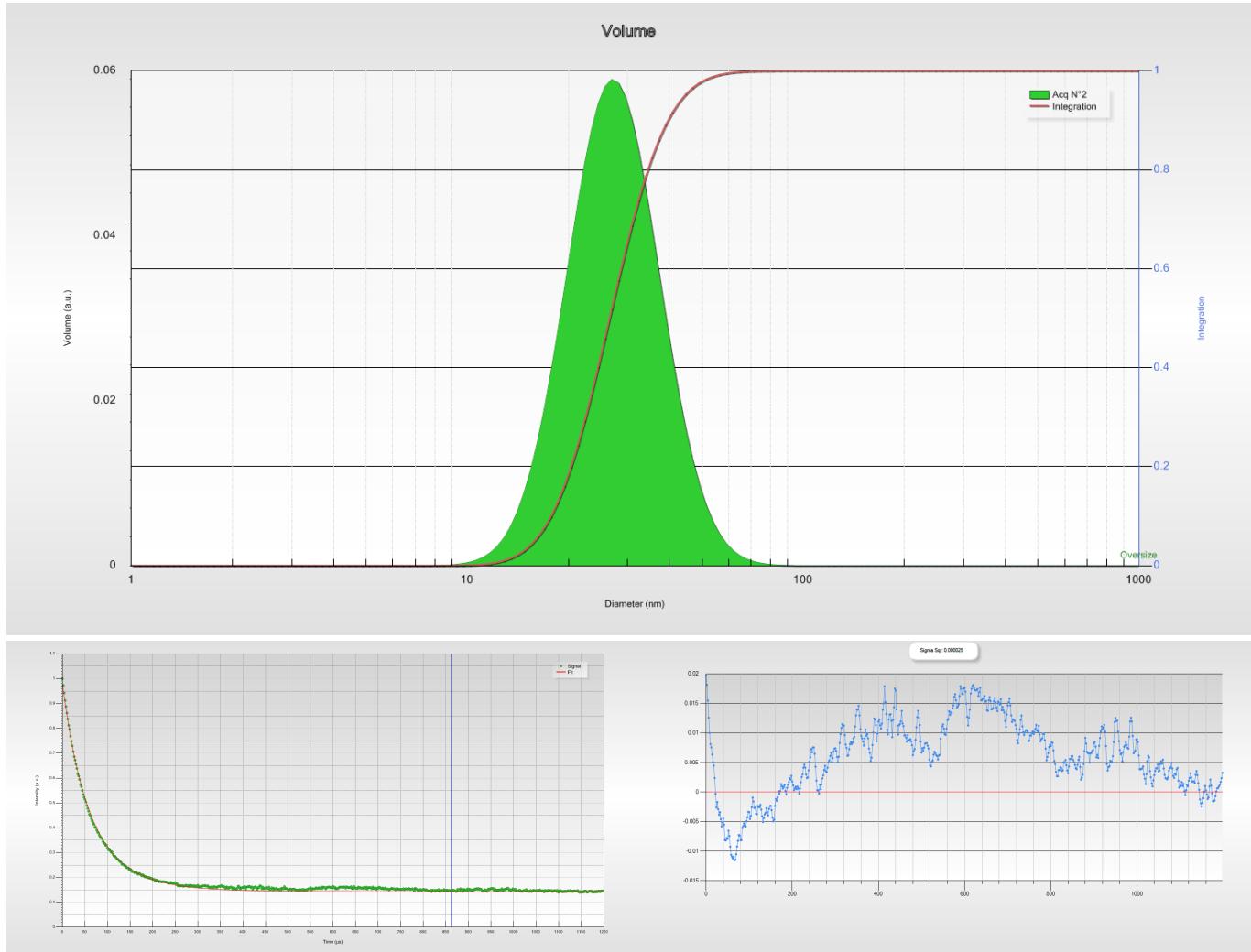


Distribution statistics

Dn 10%: 13.44 nm **Dn 50%:** 20.38 nm **Dn 90%:** 29.5 nm
Mean Number: 21.24 nm **Std Dev:** 31.81%
PDI : 0.40484

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
31.18	0.84	8331.74	15.7623E-012

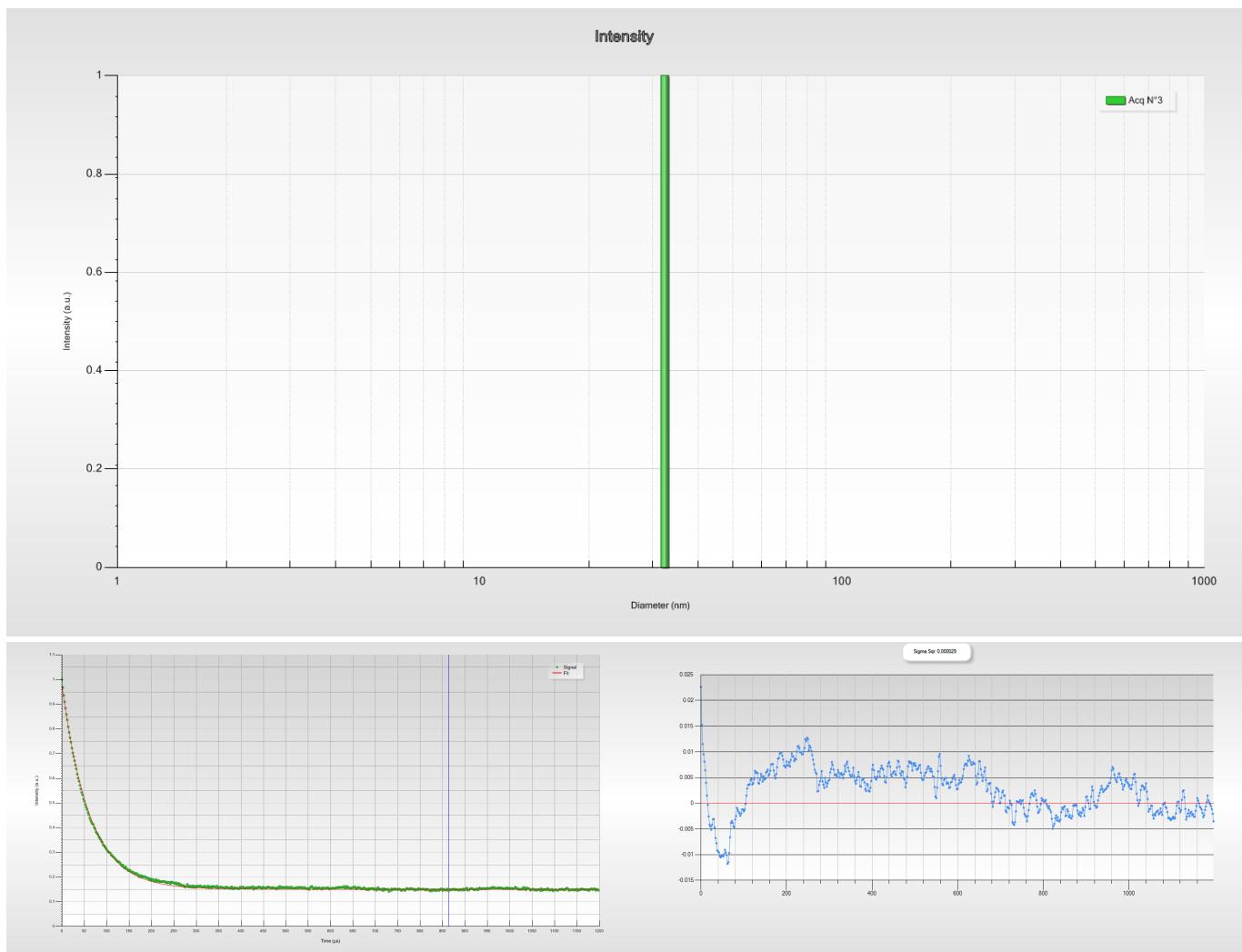


Distribution statistics

Dv 10%: 18.58 nm	Dv 50%: 26.9 nm	Dv 90%: 40.78 nm
Mean Volume: 28.49 nm		
PDI : 0.40484		Std Dev: 31.81%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
31.18	0.84	8331.74	15.7623E-012



Dispersion statistics

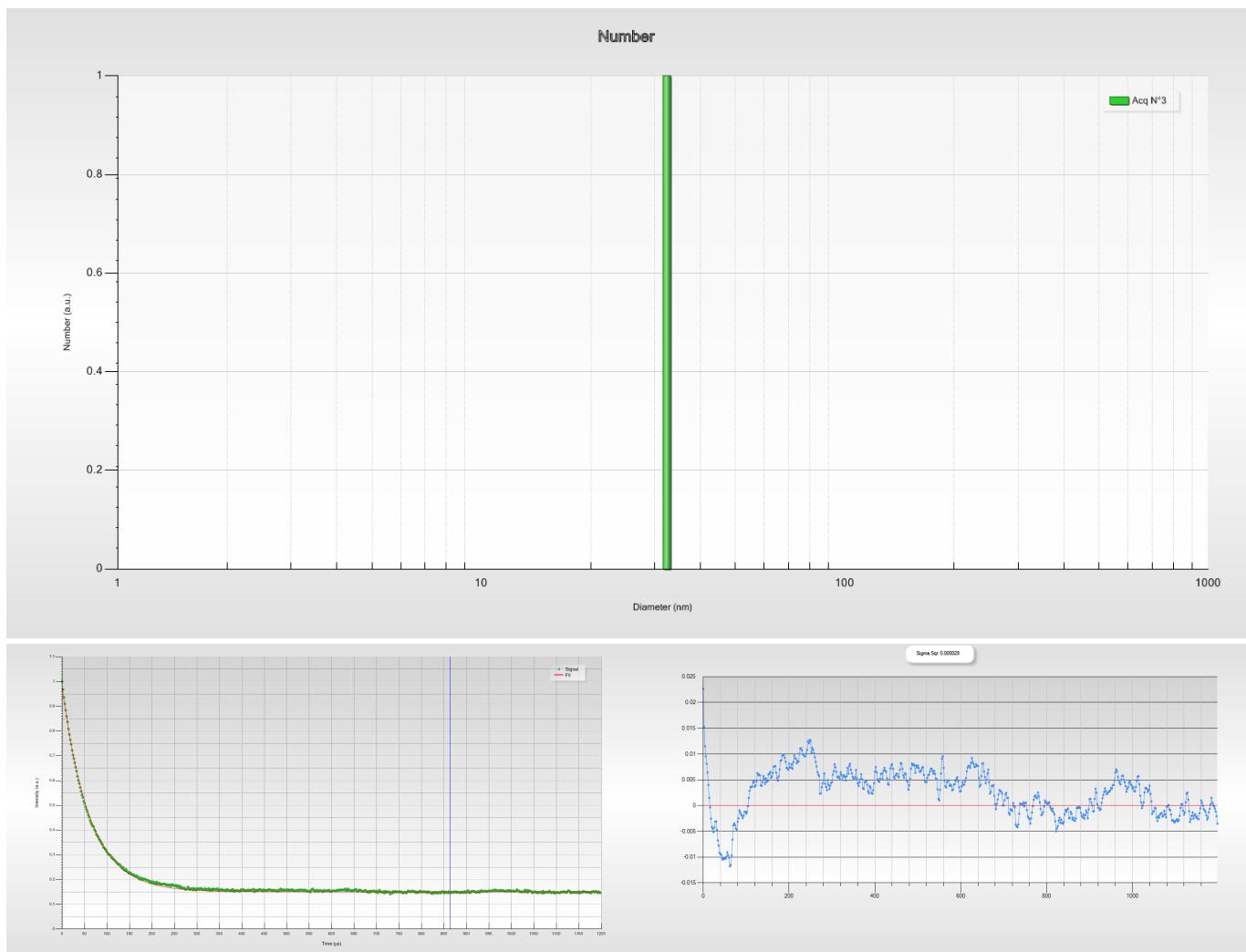
Di 10%: 32.36 nm **Di 50%:** 32.36 nm **Di 90%:** 32.36 nm
Mean Intensity: 32.36 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m²/s)
31.84	0.91	8158.67	15.43488E-012

Dispersion datas

Size (nm)	Intensity
32.36	1



Dispersion statistics

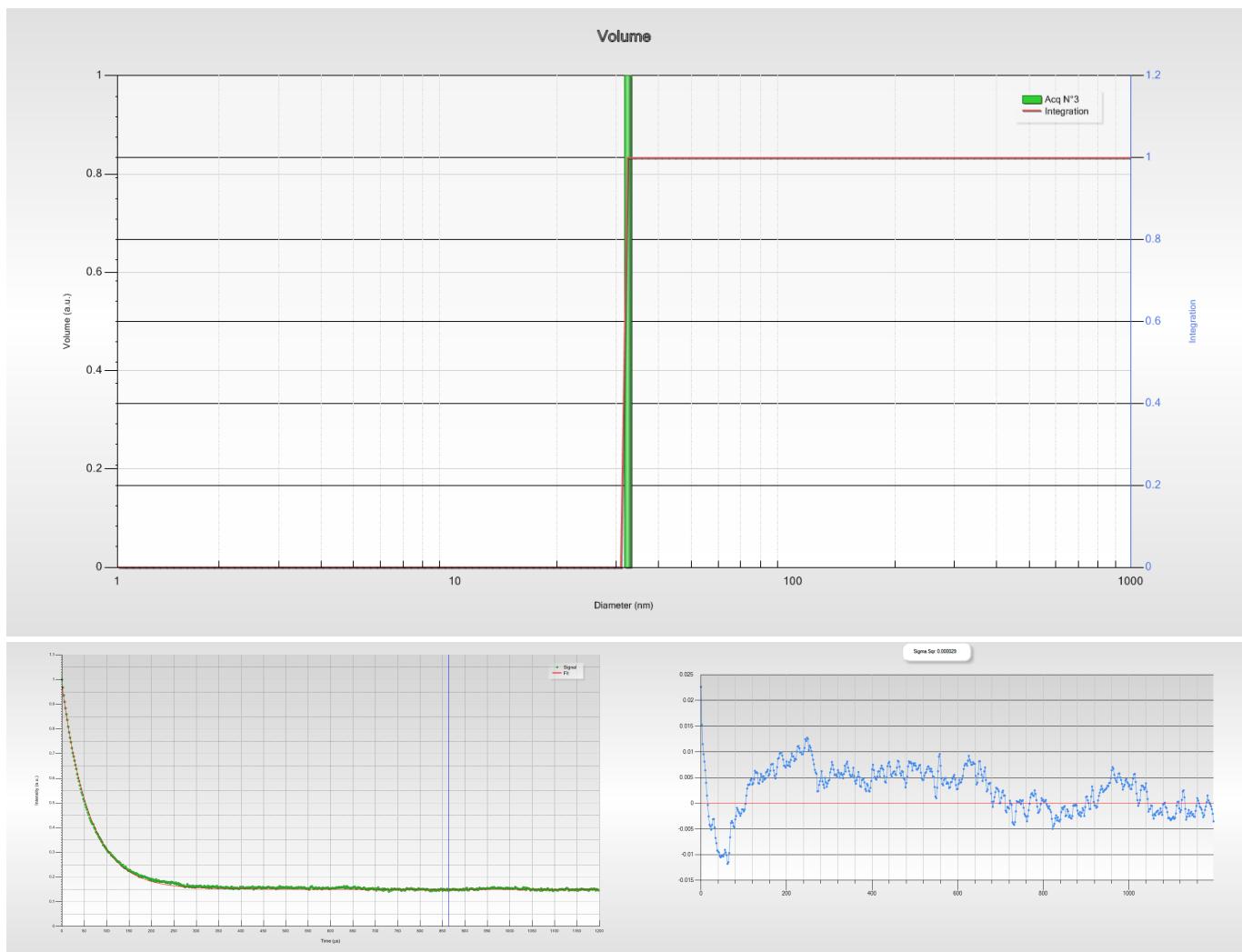
Dn 10%: 32.36 nm Dn 50%: 32.36 nm Dn 90%: 32.36 nm
 Mean Number: 32.36 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
31.84	0.91	8158.67	15.43488E-012

Dispersion datas

Size (nm)	Number
32.36	1



Dispersion statistics

D_v 10%: 32.36 nm
Mean Volume: 32.36 nm

D_v 50%: 32.36 nm

D_v 90%: 32.36 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
31.84	0.91	8158.67	15.43488E-012

Dispersion datas

Size (nm)	Volume
32.36	1

**Distribution statistics**

Di 10%: 22.36 nm	Di 50%: 32.36 nm	Di 90%: 49.06 nm
Mean Intensity: 34.26 nm		
PDI : 0.39099		Std Dev: 31.26%

Detected size(s)

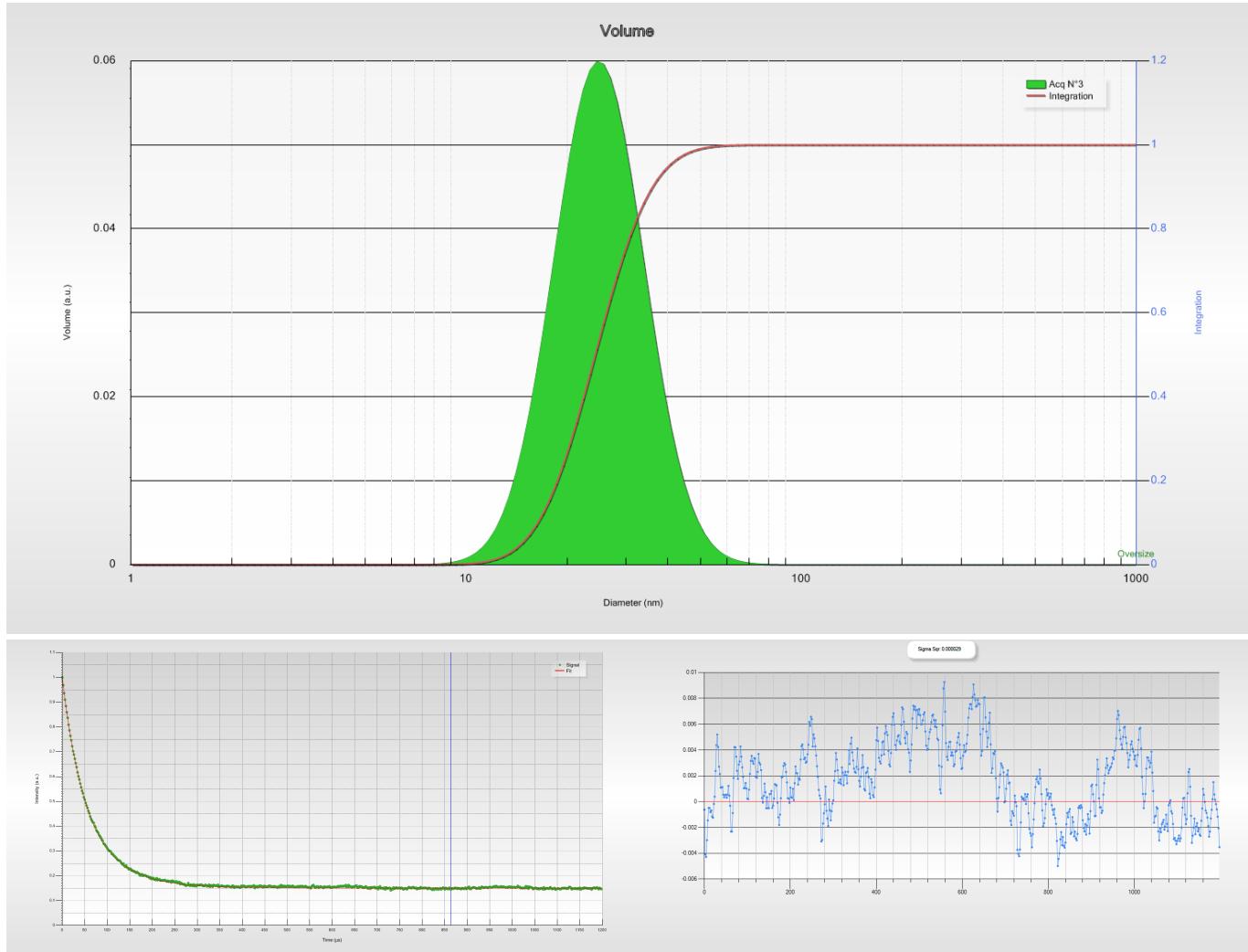
Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
28.43	0.85	9138.85	17.28922E-012

**Distribution statistics**

Dn 10%: 12.84 nm	Dn 50%: 18.58 nm	Dn 90%: 28.17 nm
Mean Number: 19.61 nm		
PDI : 0.39099		Std Dev: 31.26%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
28.43	0.85	9138.85	17.28922E-012

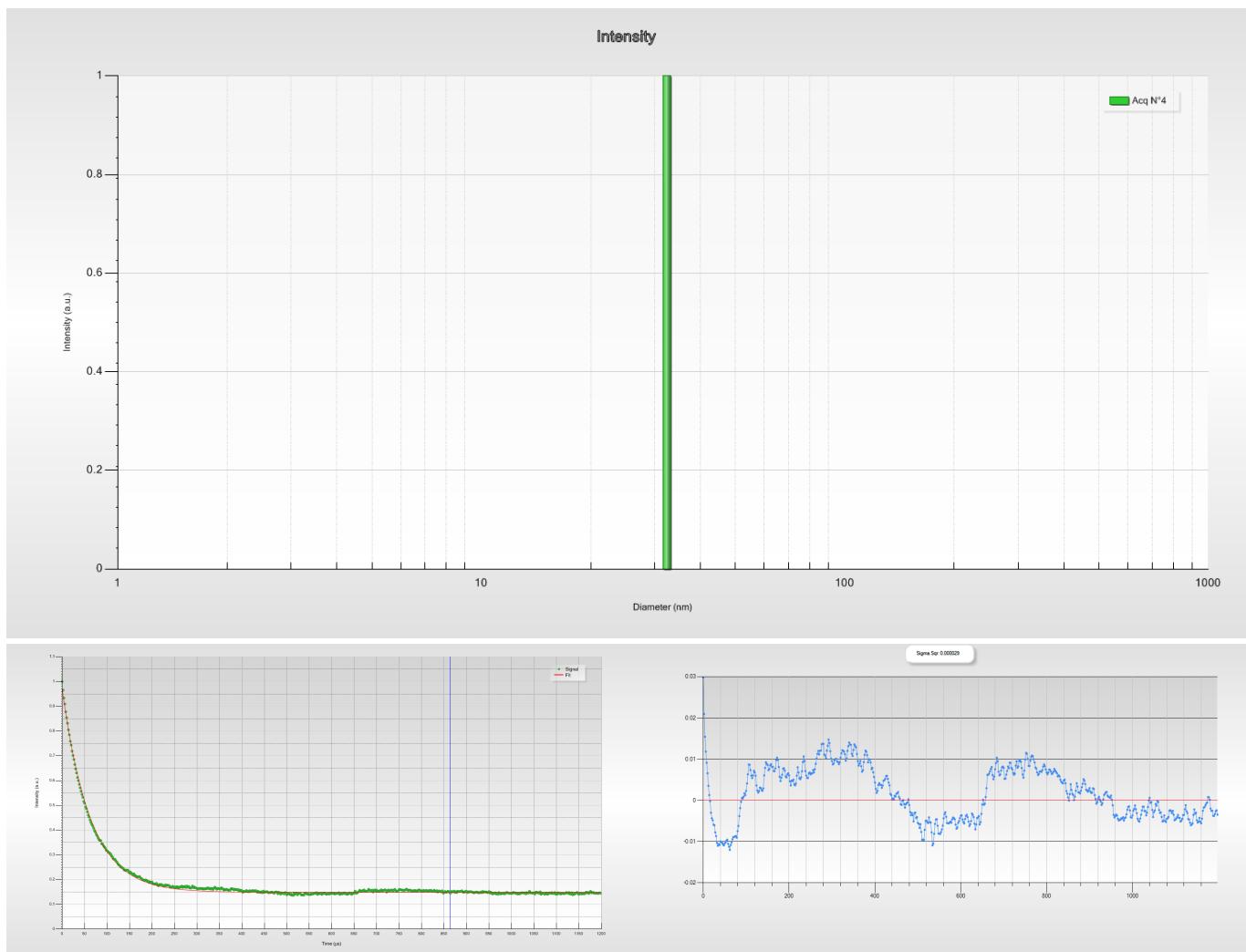


Distribution statistics

Dv 10%: 16.94 nm	Dv 50%: 24.52 nm	Dv 90%: 37.18 nm
Mean Volume: 26.04 nm		
PDI : 0.39099		Std Dev: 31.26%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
28.43	0.85	9138.85	17.28922E-012



Dispersion statistics

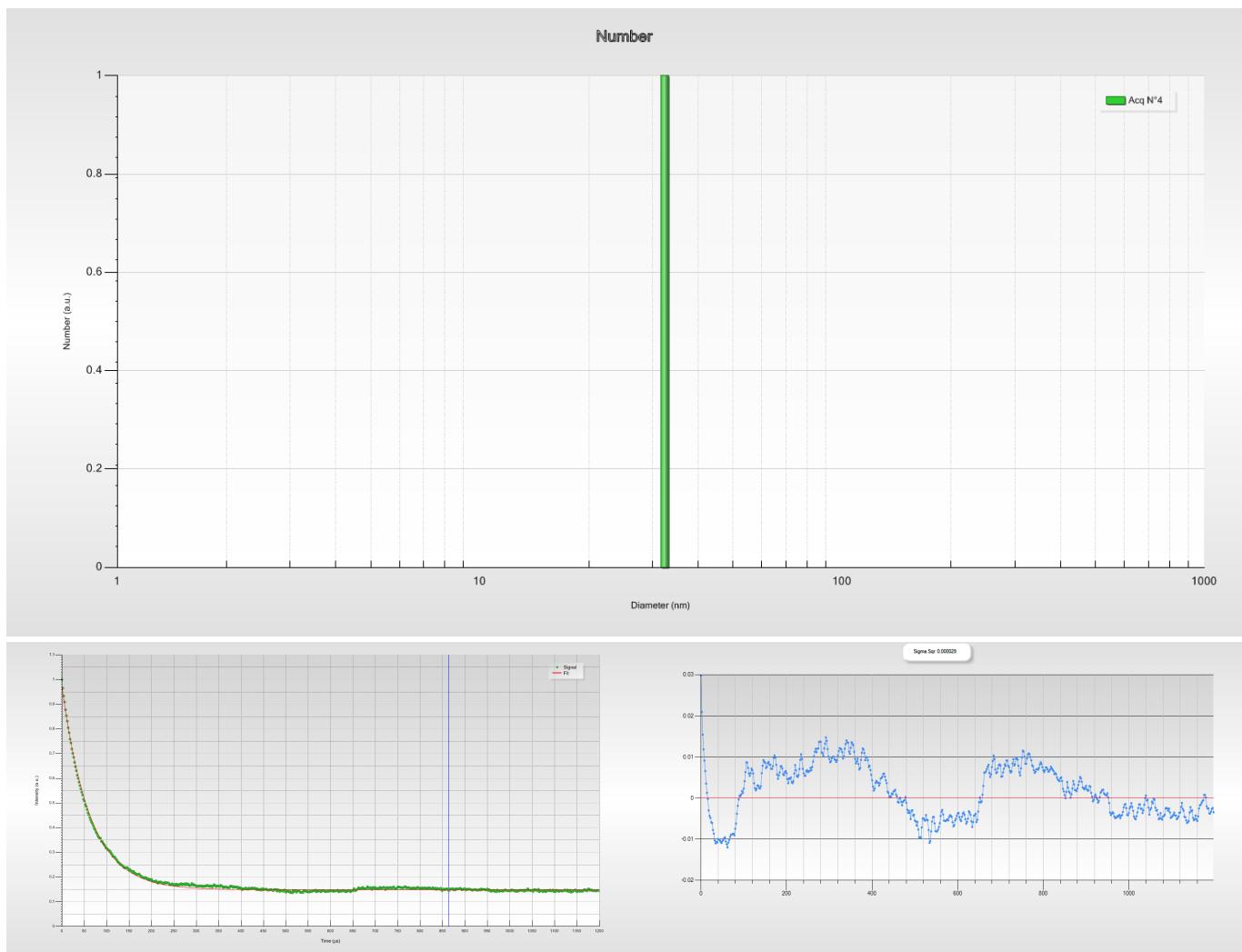
Di 10%: 32.36 nm **Di 50%:** 32.36 nm **Di 90%:** 32.36 nm
Mean Intensity: 32.36 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
32.41	0.91	8016.18	15.16531E-012

Dispersion data

Size (nm)	Intensity
32.36	1



Dispersion statistics

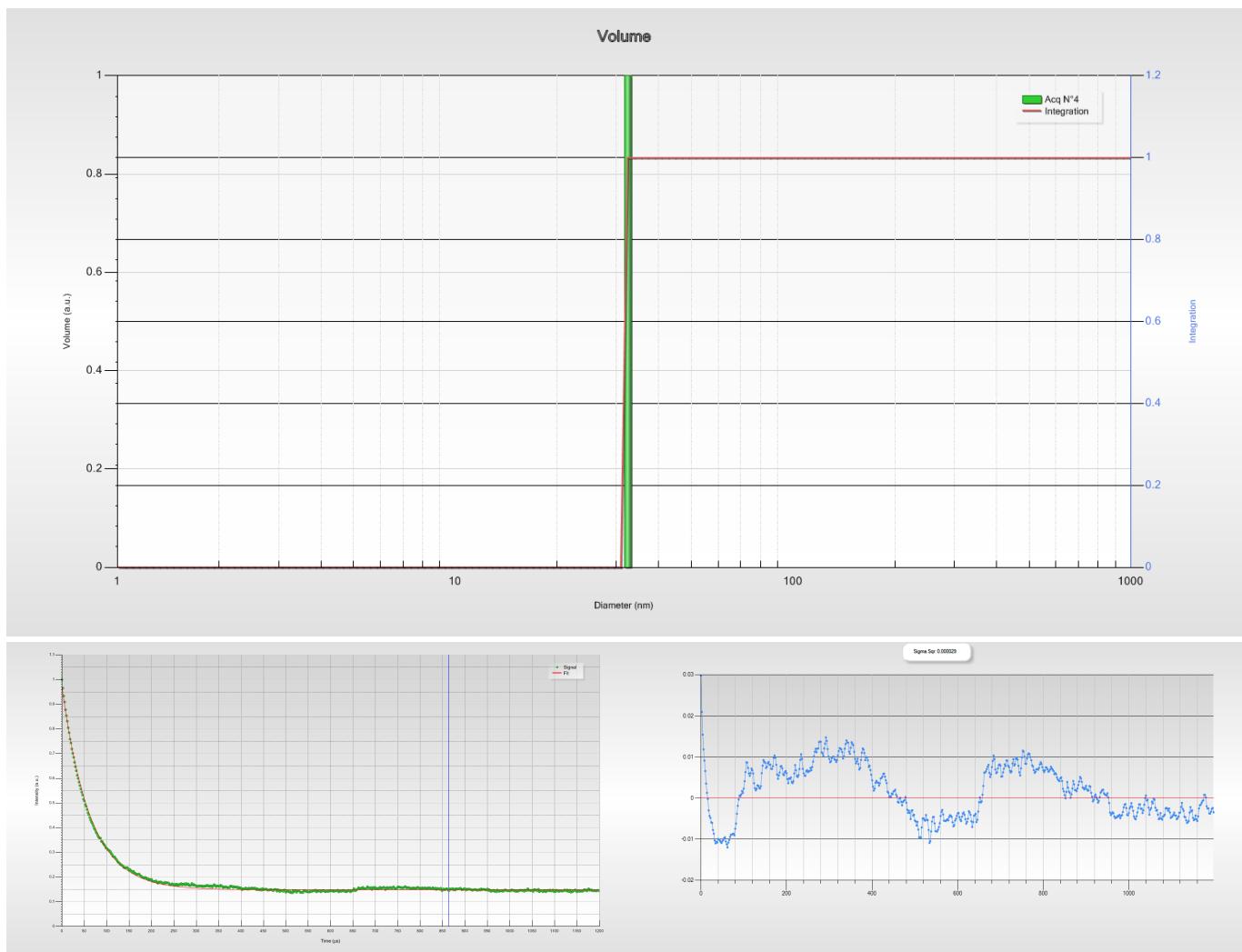
Dn 10%: 32.36 nm **Dn 50%:** 32.36 nm **Dn 90%:** 32.36 nm
Mean Number: 32.36 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
32.41	0.91	8016.18	15.16531E-012

Dispersion datas

Size (nm)	Number
32.36	1



Dispersion statistics

D_v 10%: 32.36 nm **D_v 50%:** 32.36 nm **D_v 90%:** 32.36 nm
Mean Volume: 32.36 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
32.41	0.91	8016.18	15.16531E-012

Dispersion datas

Size (nm)	Volume
32.36	1

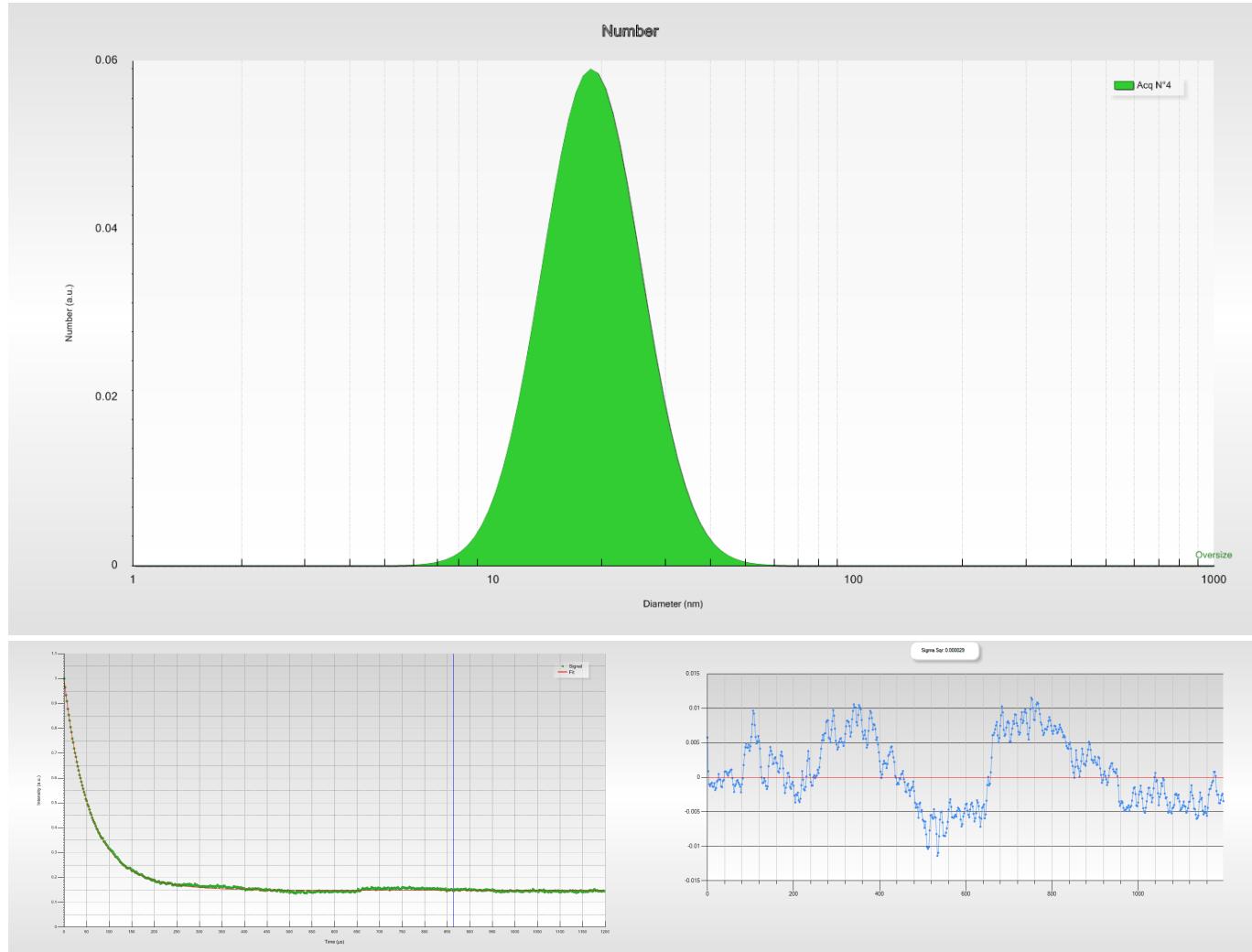


Distribution statistics

Di 10%: 22.36 nm **Di 50%:** 33.89 nm **Di 90%:** 49.06 nm
Mean Intensity: 34.94 nm **Std Dev:** 31.82%
PDI : 0.40494

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
28.81	0.85	9017.52	17.05968E-012

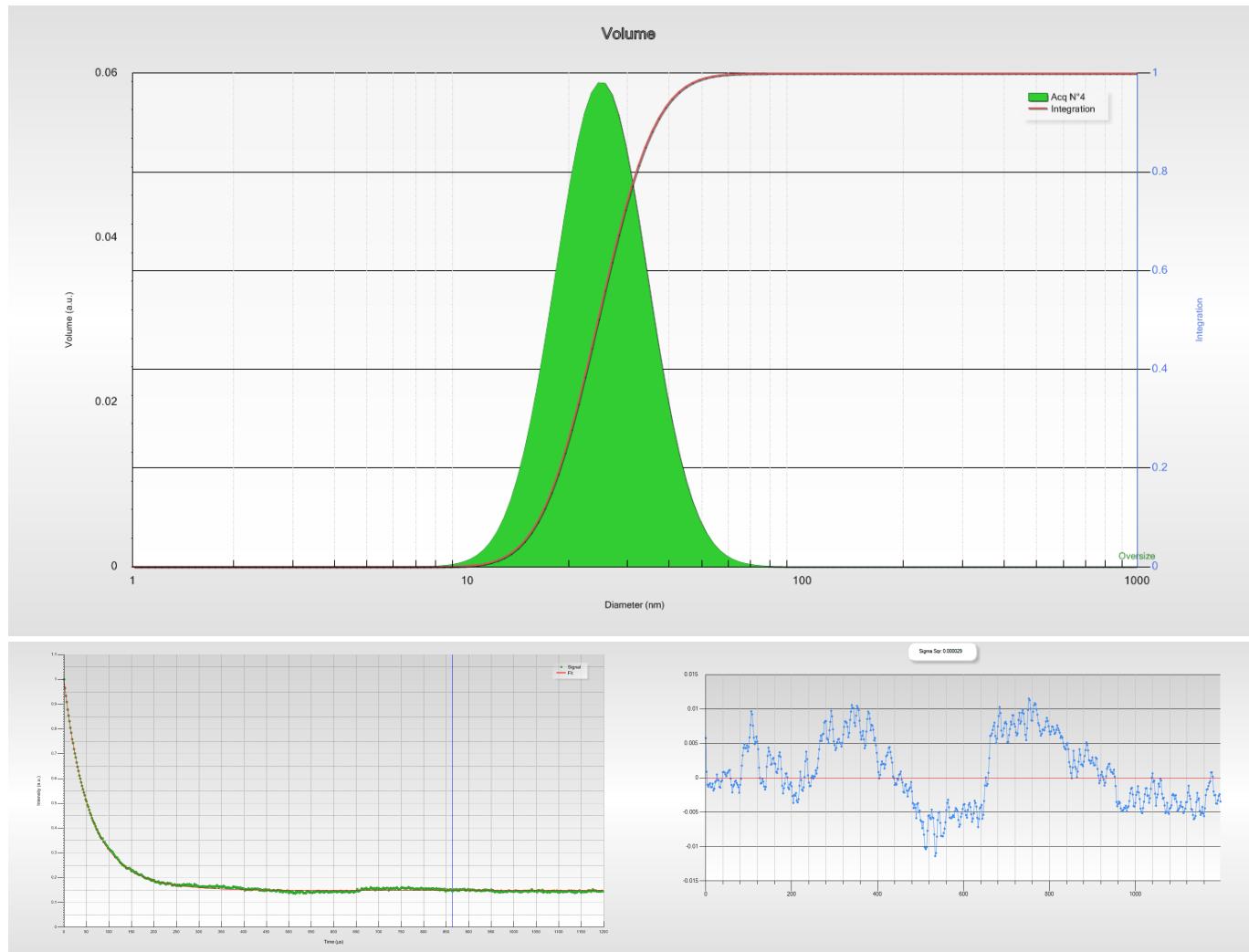


Distribution statistics

Dn 10%: 12.26 nm	Dn 50%: 18.58 nm	Dn 90%: 28.17 nm
Mean Number: 19.62 nm		
PDI : 0.40494		Std Dev: 31.82%

Detected size(s)

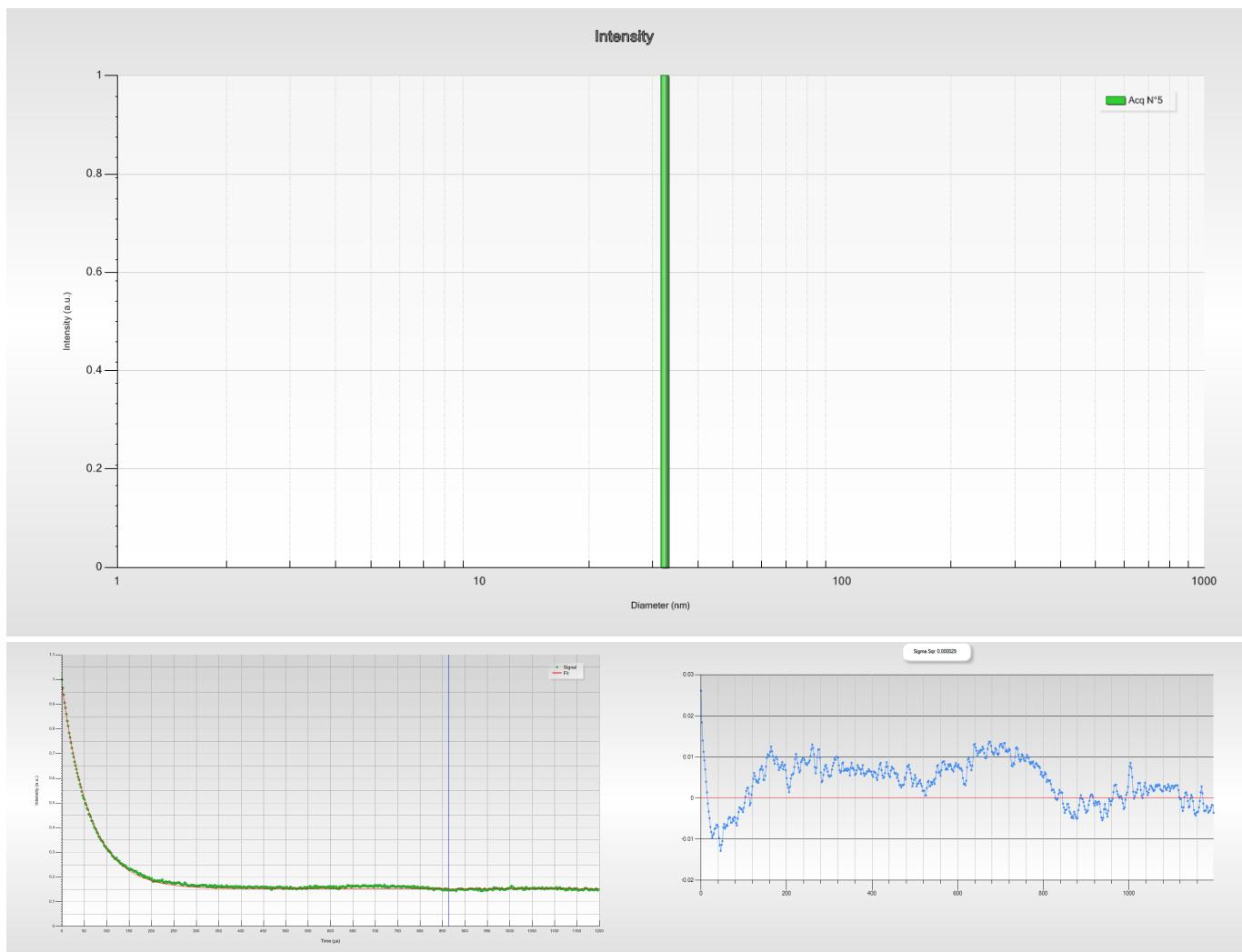
Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
28.81	0.85	9017.52	17.05968E-012

**Distribution statistics**

D_v 10%: 16.94 nm **D_v 50%:** 24.52 nm **D_v 90%:** 37.18 nm
Mean Volume: 26.31 nm **Std Dev:** 31.82%
PDI : 0.40494

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
28.81	0.85	9017.52	17.05968E-012



Dispersion statistics

Di 10%: 32.36 nm
Mean Intensity: 32.36 nm

Di 50%: 32.36 nm

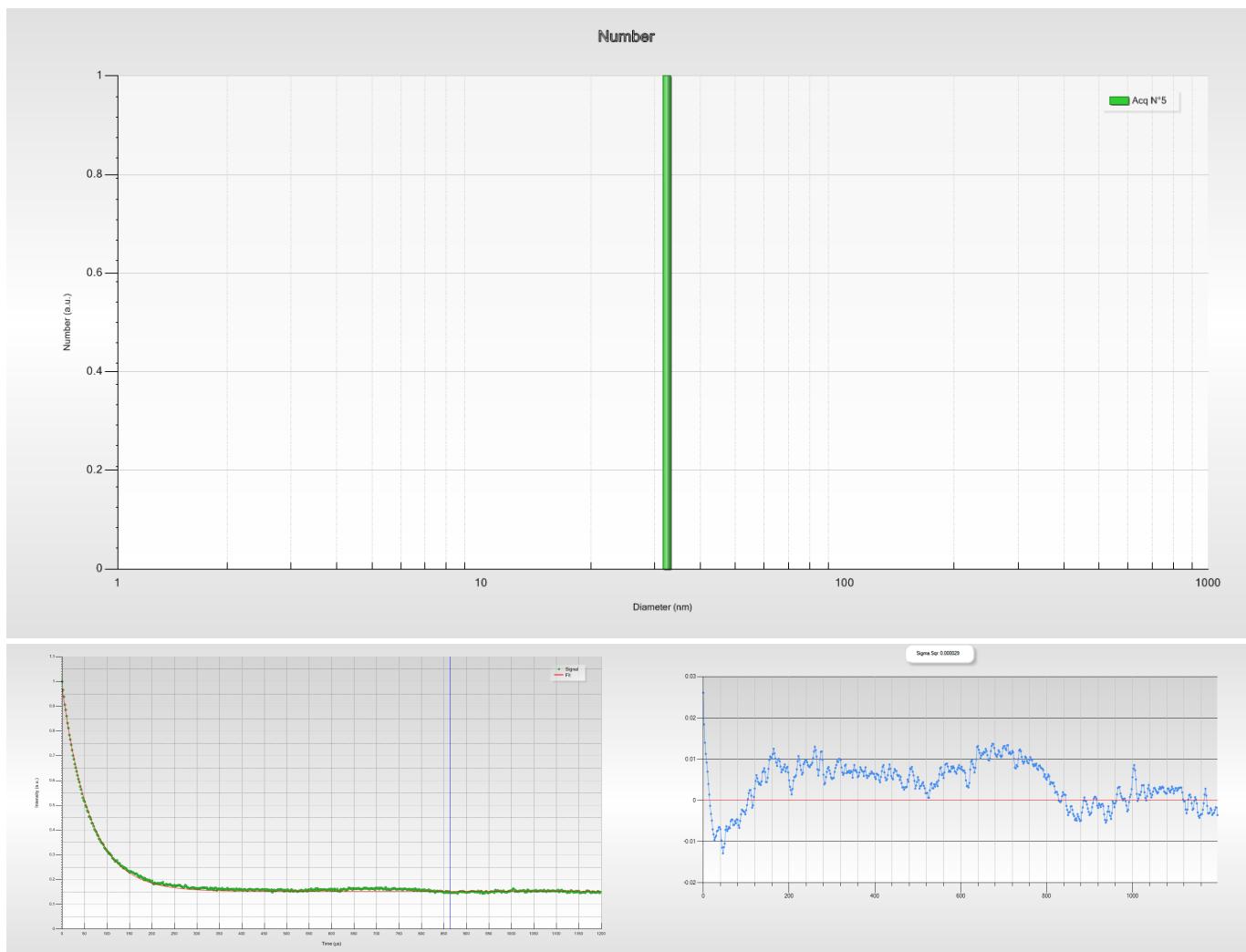
Di 90%: 32.36 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m²/s)
32.44	0.91	8007.4	15.1487E-012

Dispersion datas

Size (nm)	Intensity
32.36	1



Dispersion statistics

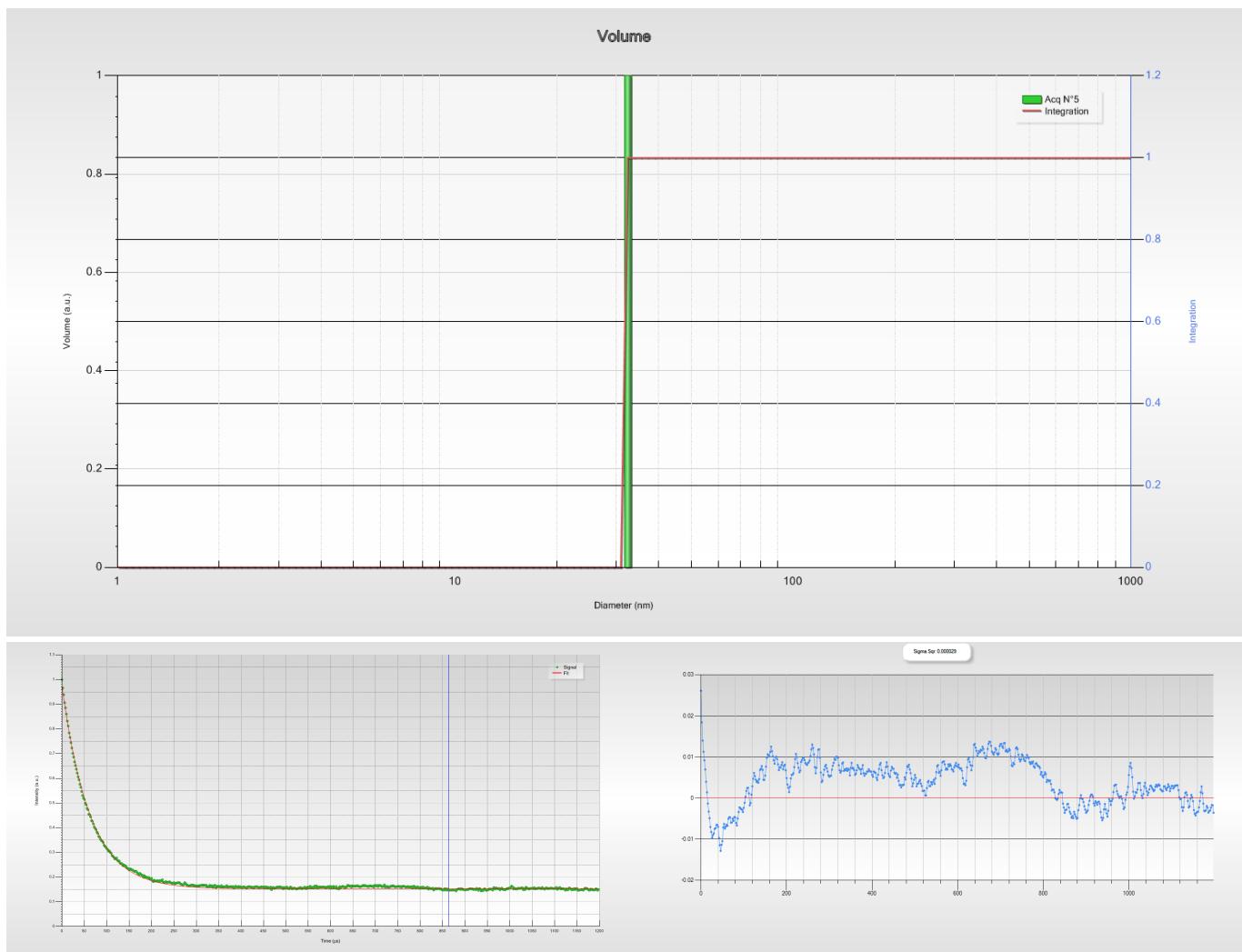
Dn 10%: 32.36 nm **Dn 50%:** 32.36 nm **Dn 90%:** 32.36 nm
Mean Number: 32.36 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
32.44	0.91	8007.4	15.1487E-012

Dispersion data

Size (nm)	Number
32.36	1



Dispersion statistics

D_v 10%: 32.36 nm
Mean Volume: 32.36 nm

D_v 50%: 32.36 nm

D_v 90%: 32.36 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
32.44	0.91	8007.4	15.1487E-012

Dispersion datas

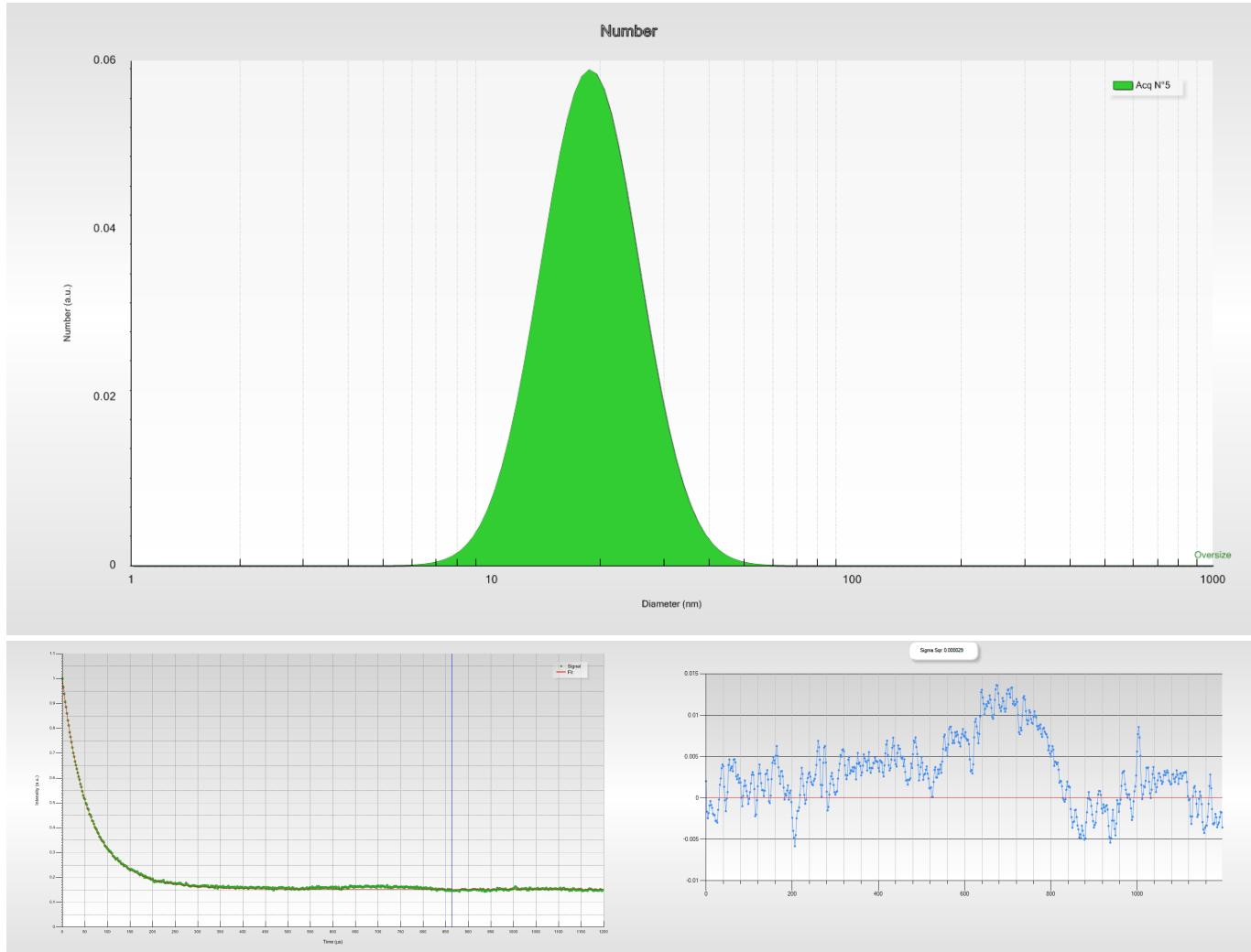
Size (nm)	Volume
32.36	1

**Distribution statistics**

Di 10%: 22.36 nm	Di 50%: 33.89 nm	Di 90%: 49.06 nm
Mean Intensity: 34.98 nm		
PDI : 0.4059		Std Dev: 31.86%

Detected size(s)

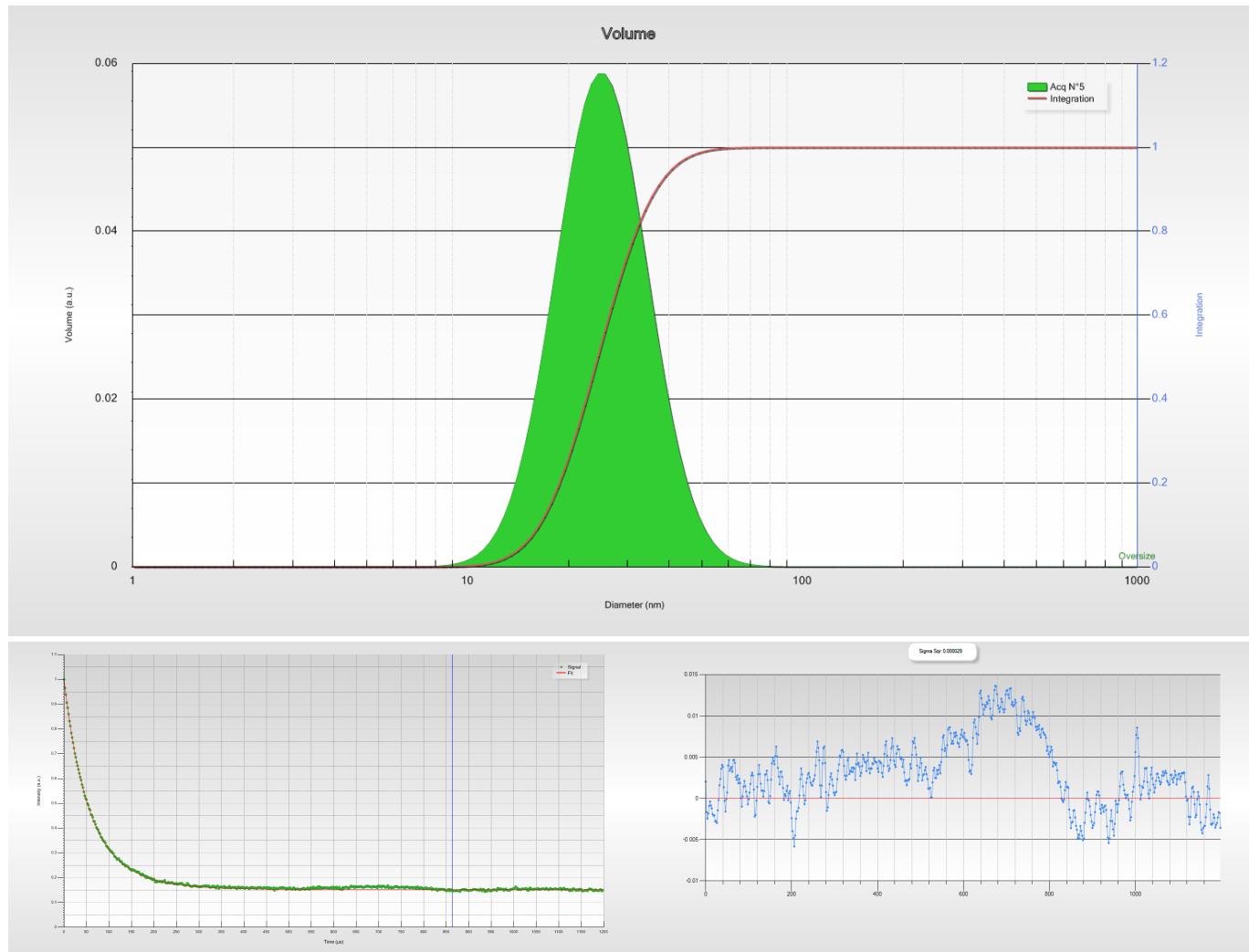
Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
28.83	0.85	9012.04	17.04932E-012

**Distribution statistics**

Dn 10%: 12.26 nm	Dn 50%: 18.58 nm	Dn 90%: 28.17 nm
Mean Number: 19.62 nm		
PDI : 0.4059		Std Dev: 31.86%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
28.83	0.85	9012.04	17.04932E-012



Distribution statistics

D_v 10%: 16.94 nm	D_v 50%: 24.52 nm	D_v 90%: 37.18 nm
Mean Volume: 26.32 nm		
PDI : 0.4059		Std Dev: 31.86%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
28.83	0.85	9012.04	17.04932E-012