

Sample

Name : GNP_11.4.16_9.10_1
Mesured On : 11.04.2016 16:23
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	: 73 %	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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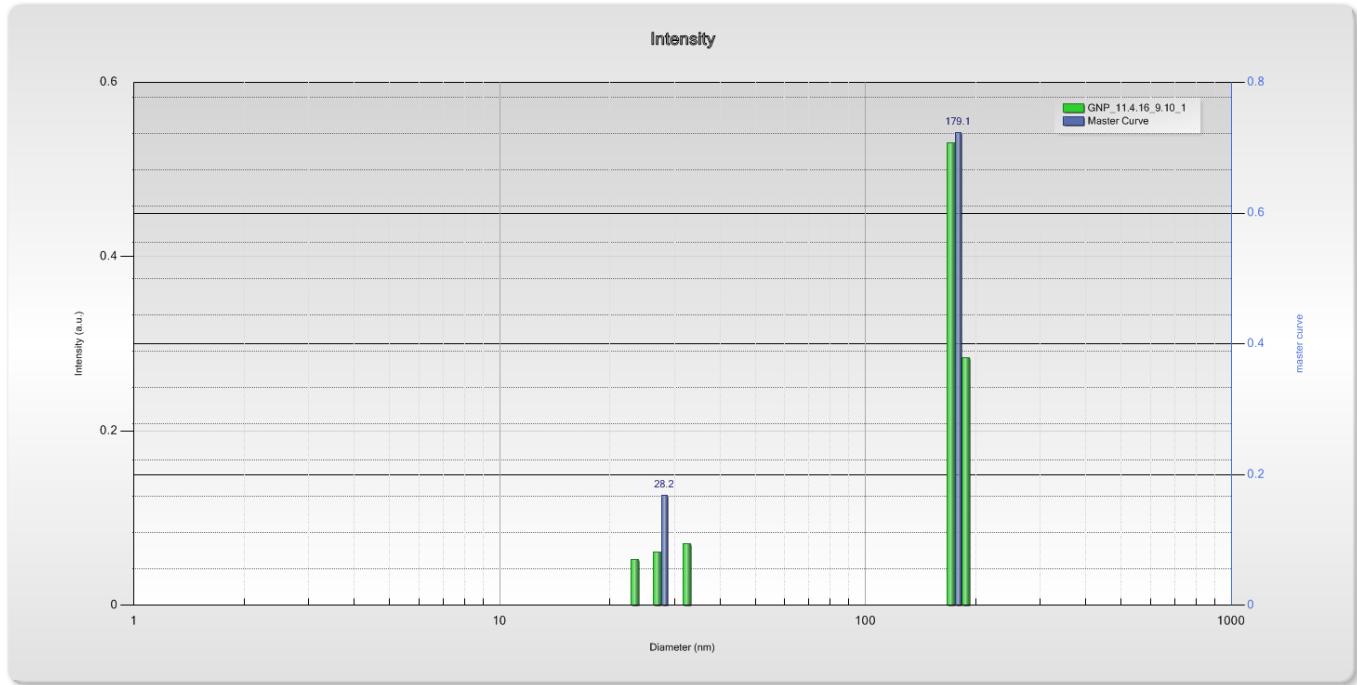
Algorithm

Pade Laplace	Cumulants
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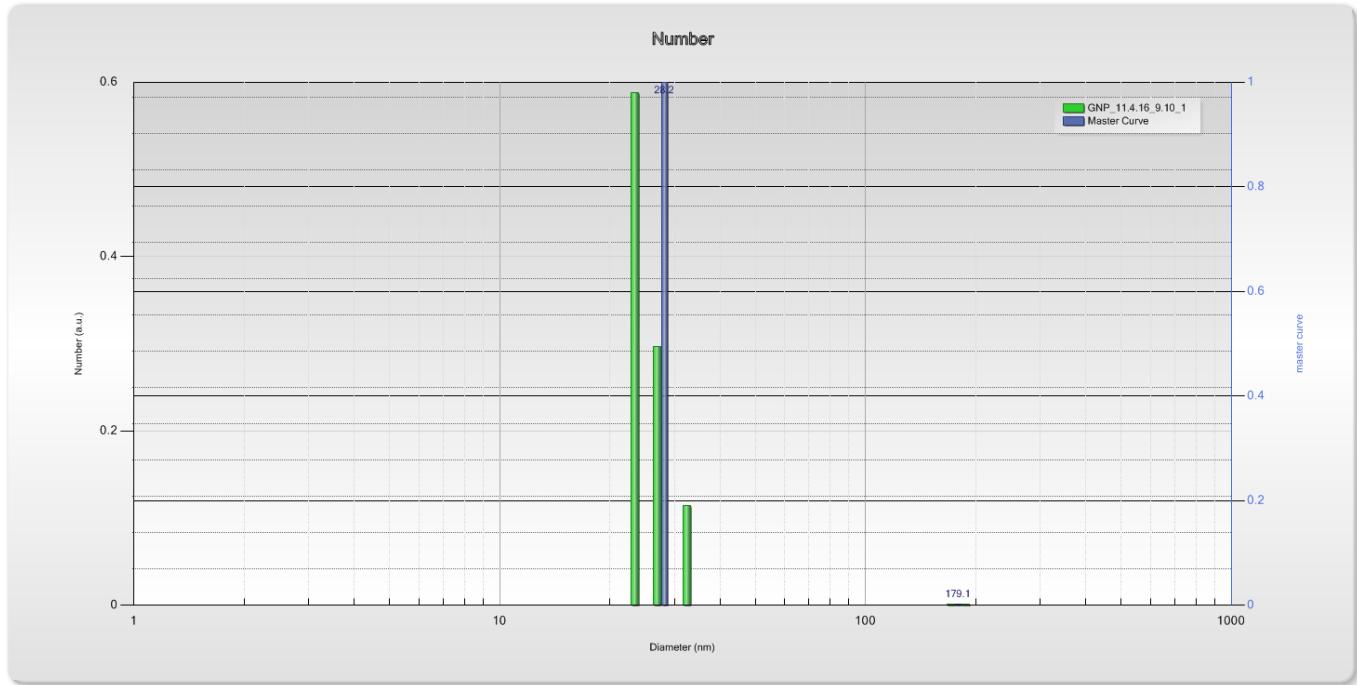
Measurement

Average count rate : 2459 kcps
Number of rejected : 2

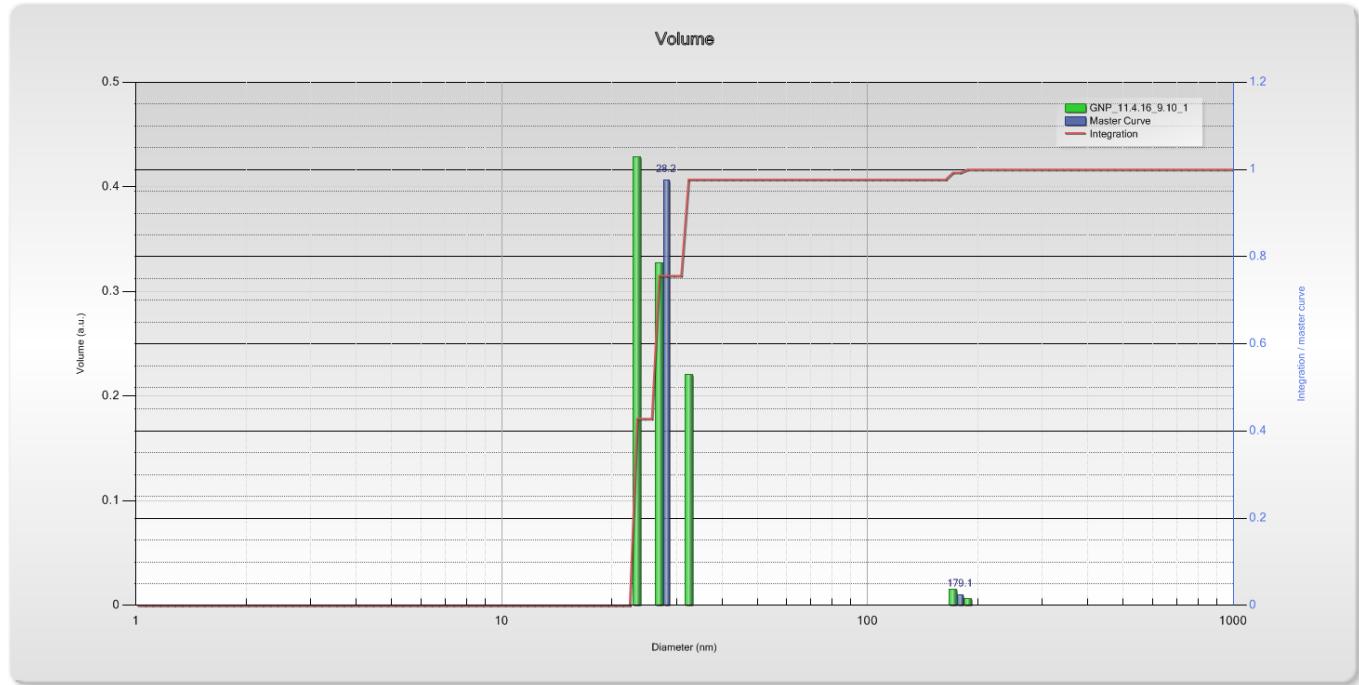
Duration : 00:05:16
Number of modified : 0

***Dispersion statistics******Di 10%:*** 26.9 nm***Di 50%:*** 170.97 nm***Di 90%:*** 187.54 nm***Dispersion data***

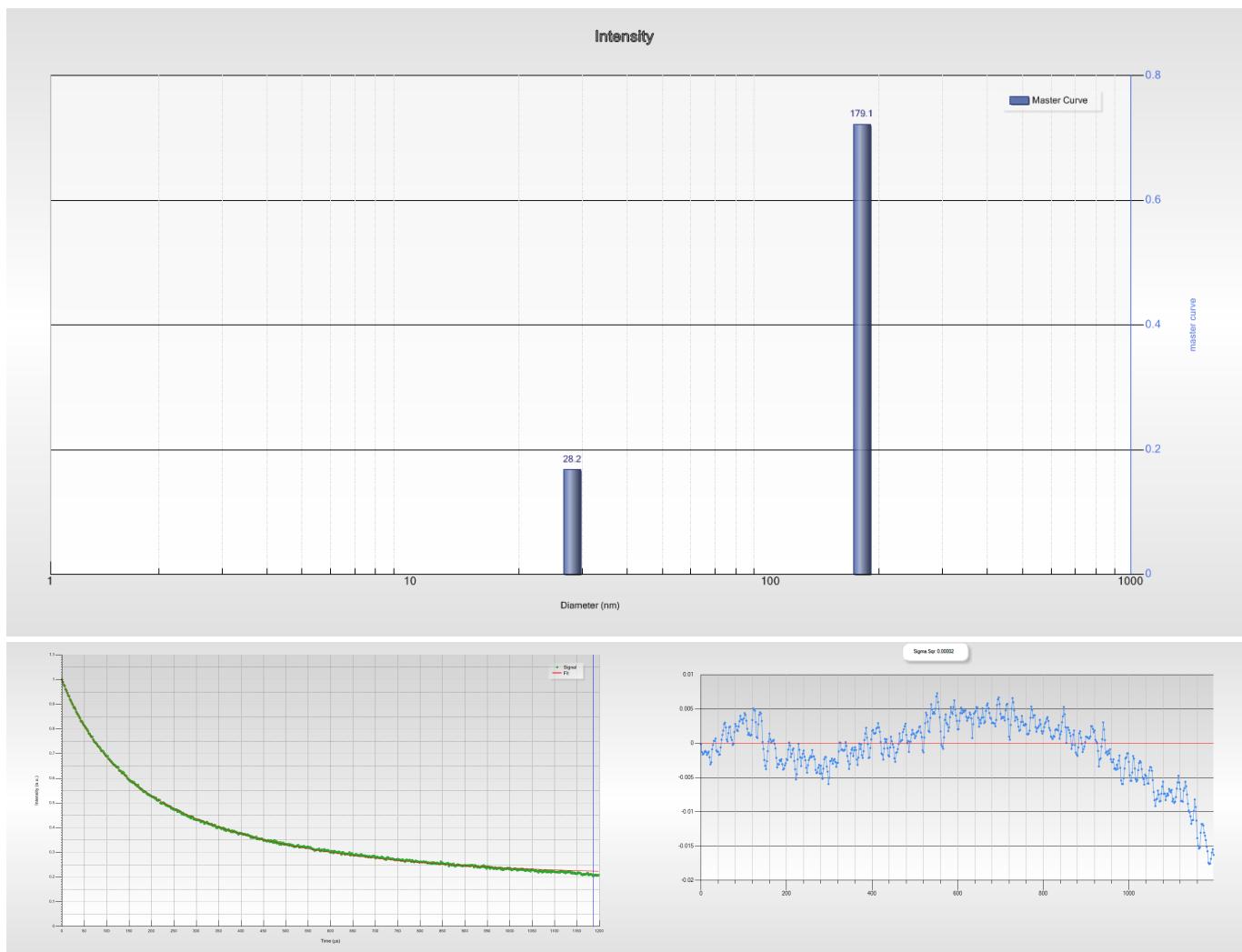
Size (nm)	Intensity						
23.41	0.05	32.36	0.07	187.54	0.28		
26.9	0.06	170.97	0.53				

***Dispersion statistics******Dn 10%: 23.41 nm******Dn 50%: 23.41 nm******Dn 90%: 32.36 nm******Dispersion data***

Size (nm)	Number	Size (nm)	Number	Size (nm)	Number
23.41	0.59	26.9	0.3	32.36	0.11

**Dispersion statistics****D_v 10%:** 23.41 nm**D_v 50%:** 26.9 nm**D_v 90%:** 32.36 nm**Dispersion data**

Size (nm)	Volume						
23.41	0.43	32.36	0.22	187.54	0.01		
26.9	0.33	170.97	0.02				



Dispersion statistics

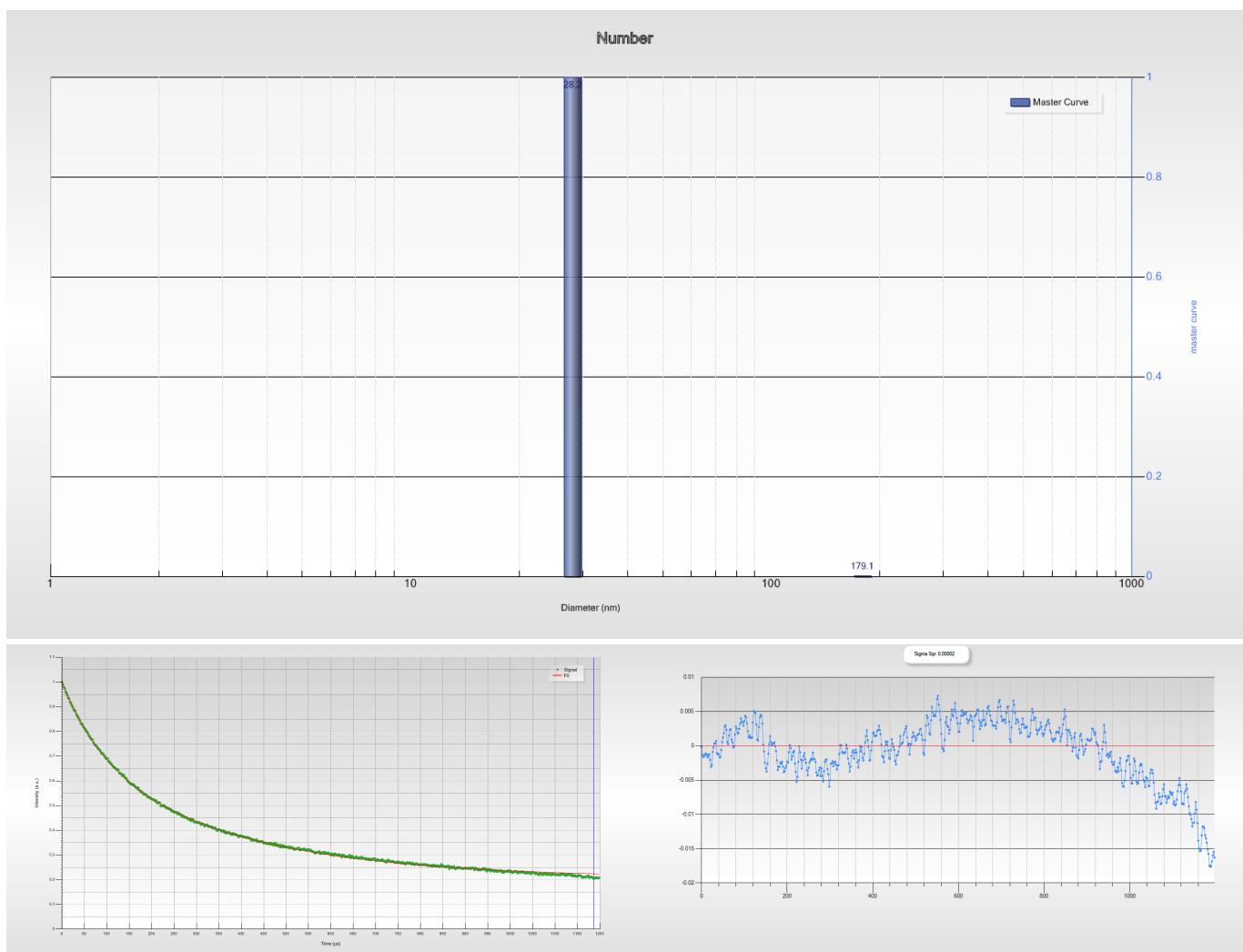
Di 10%: 28.17 nm **Di 50%:** 179.07 nm **Di 90%:** 179.07 nm
Mean Intensity: 150.61 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
28.14	0.17	9233.13	17.46759E-012
180.06	0.72	1442.79	27.29528E-013

Dispersion data

Size (nm)	Intensity	Size (nm)	Intensity
28.17	0.19	179.07	0.81



Dispersion statistics

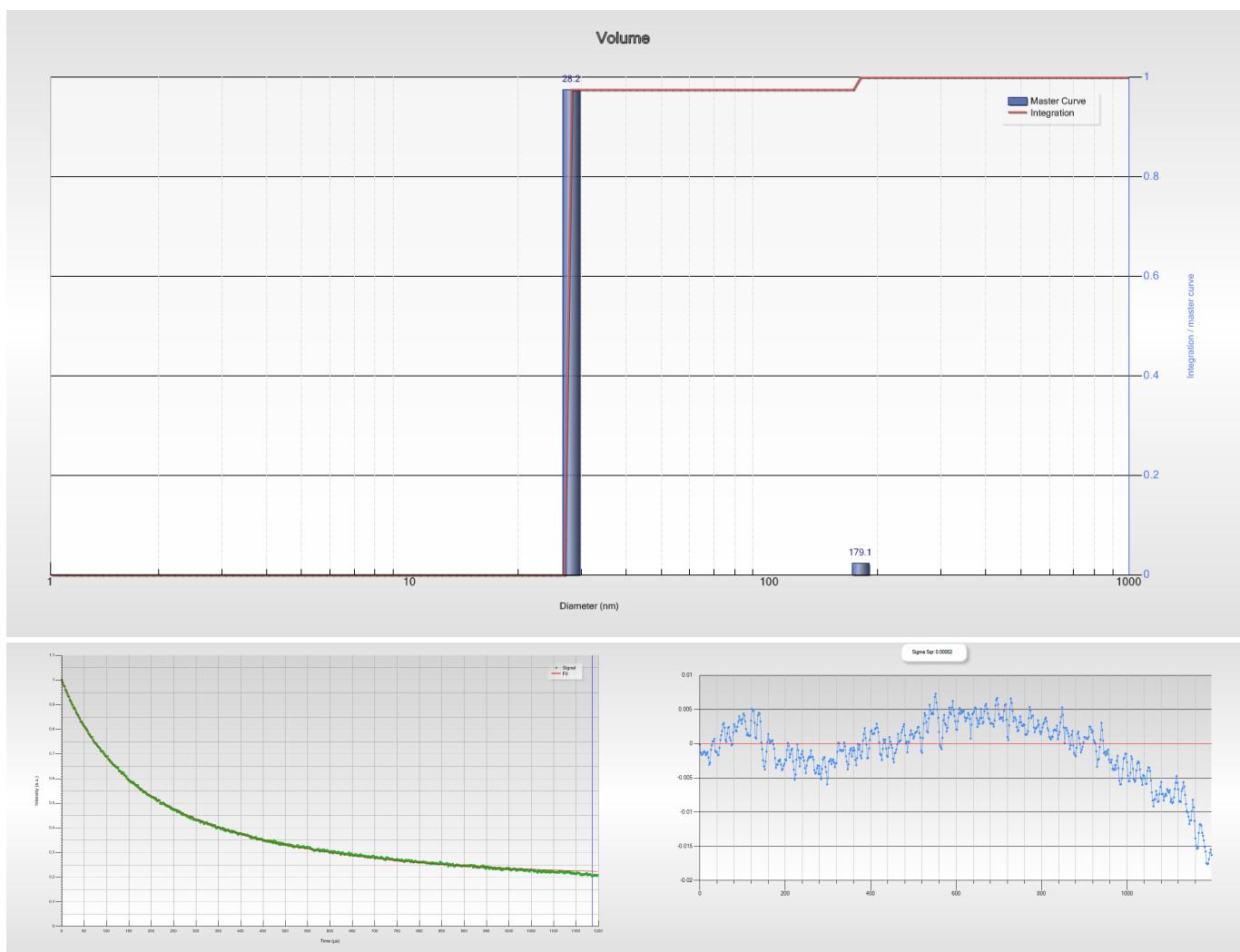
Dn 10%: 28.17 nm **Dn 50%:** 28.17 nm **Dn 90%:** 28.17 nm
Mean Number: 28.19 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
28.14	0.17	9233.13	17.46759E-012
180.06	0.72	1442.79	27.29528E-013

Dispersion data

Size (nm)	Number
28.17	1



Dispersion statistics

D_v 10%: 28.17 nm
Mean Volume: 31.85 nm

D_v 50%: 28.17 nm

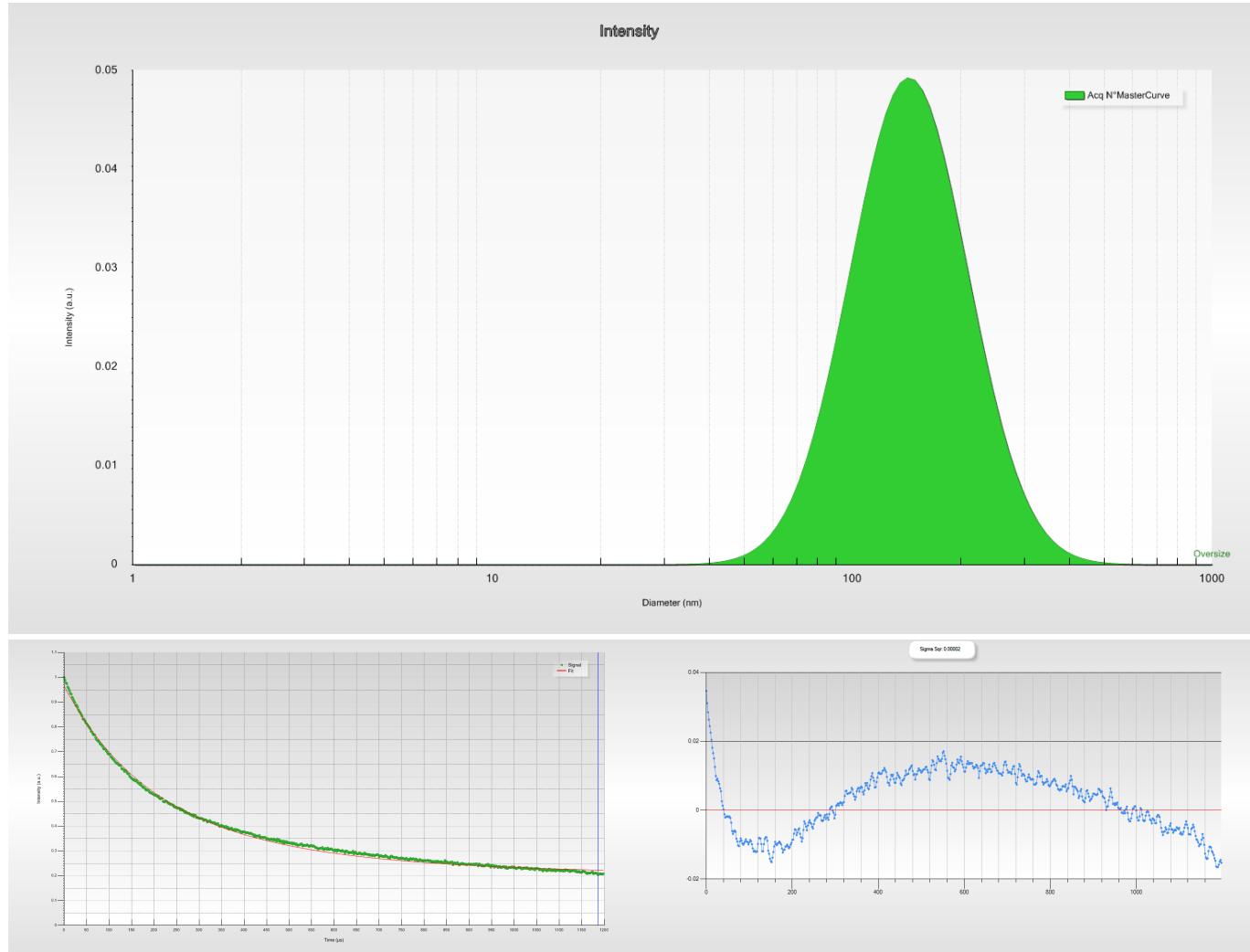
D_v 90%: 28.17 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
28.14	0.17	9233.13	17.46759E-012
180.06	0.72	1442.79	27.29528E-013

Dispersion data

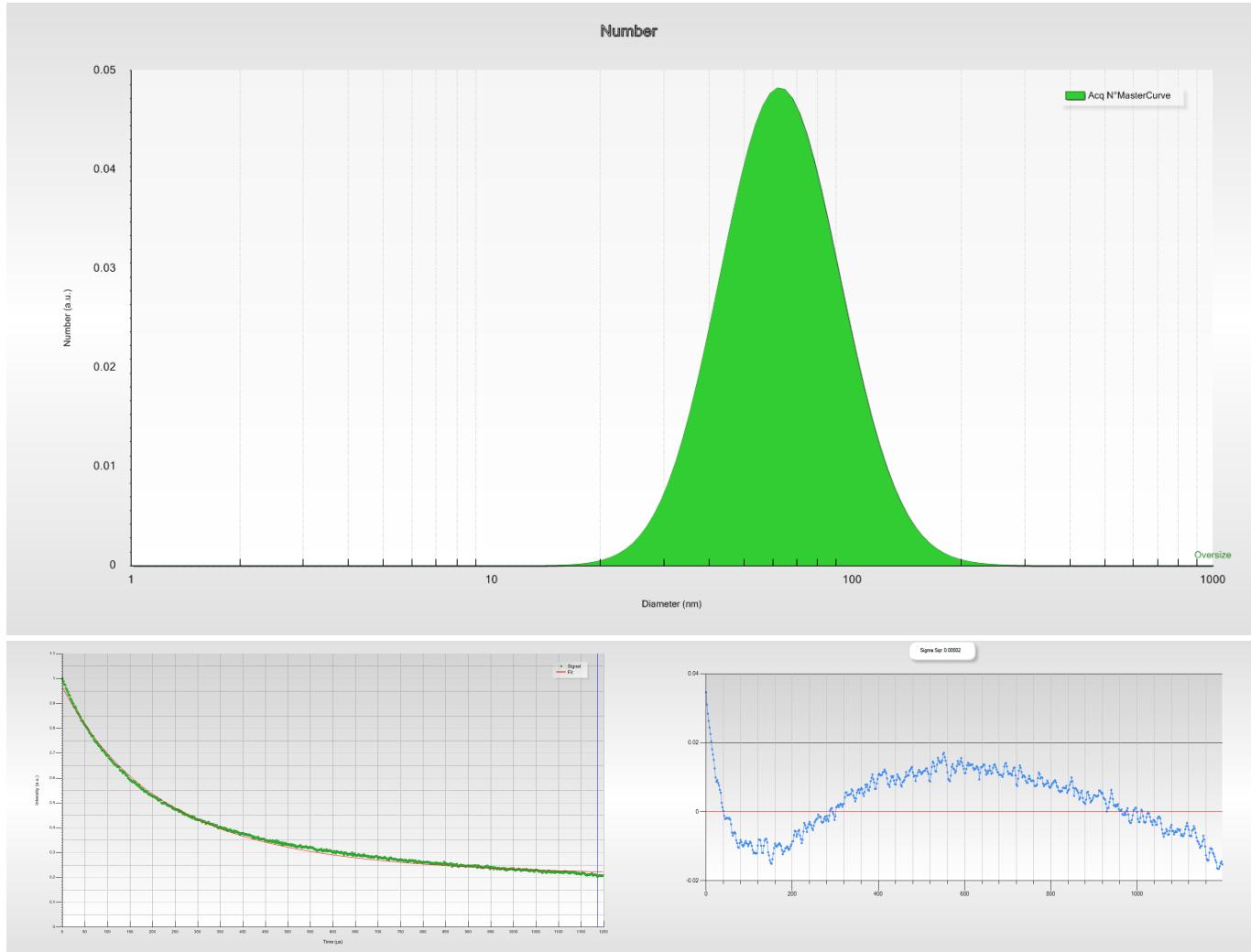
Size (nm)	Volume	Size (nm)	Volume
28.17	0.98	179.07	0.02

**Distribution statistics**

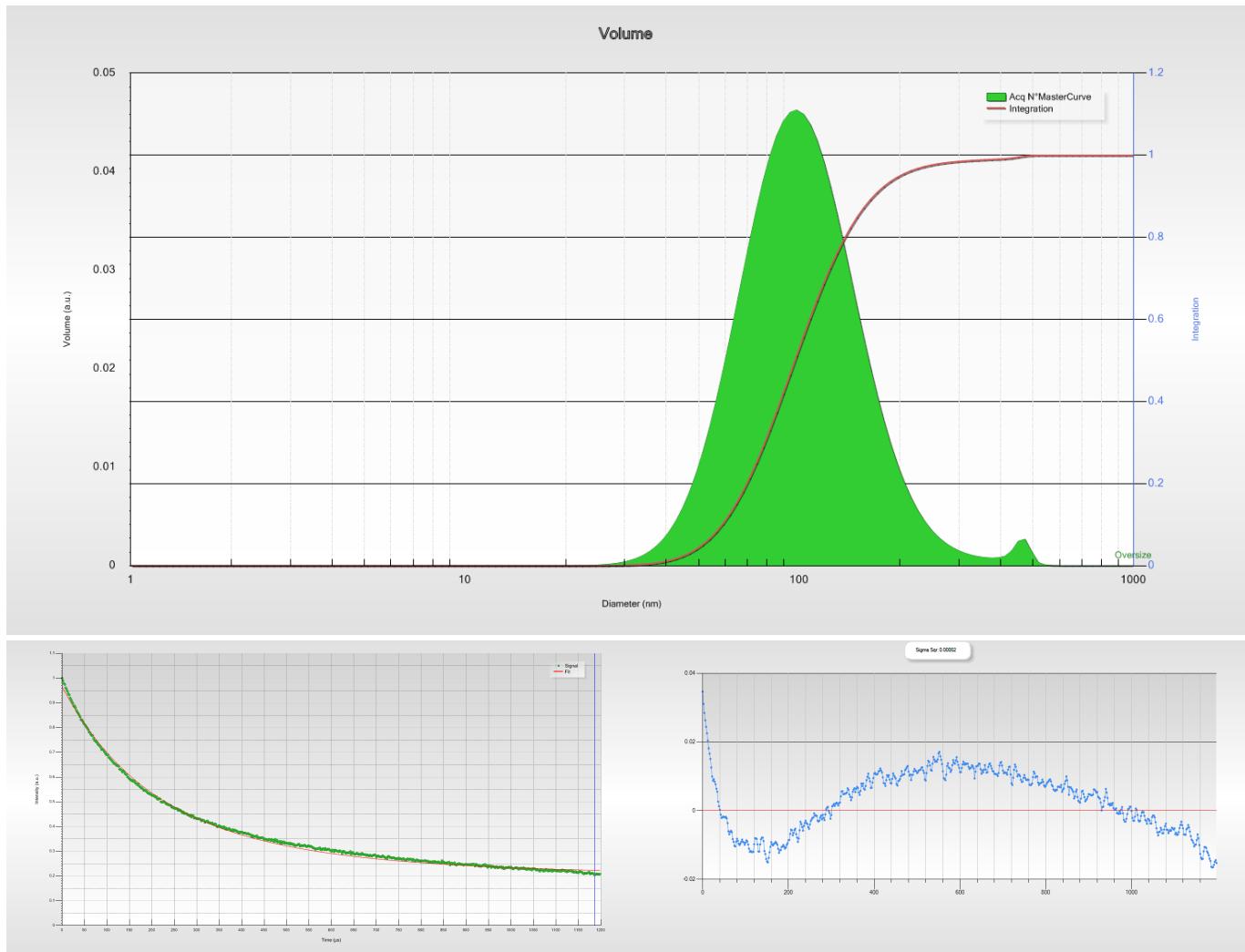
Di 10%: 89.5 nm	Di 50%: 142.11 nm	Di 90%: 236.32 nm
Mean Intensity: 153.78 nm		
PDI : 0.60133		Std Dev: 38.77%

Detected size(s)

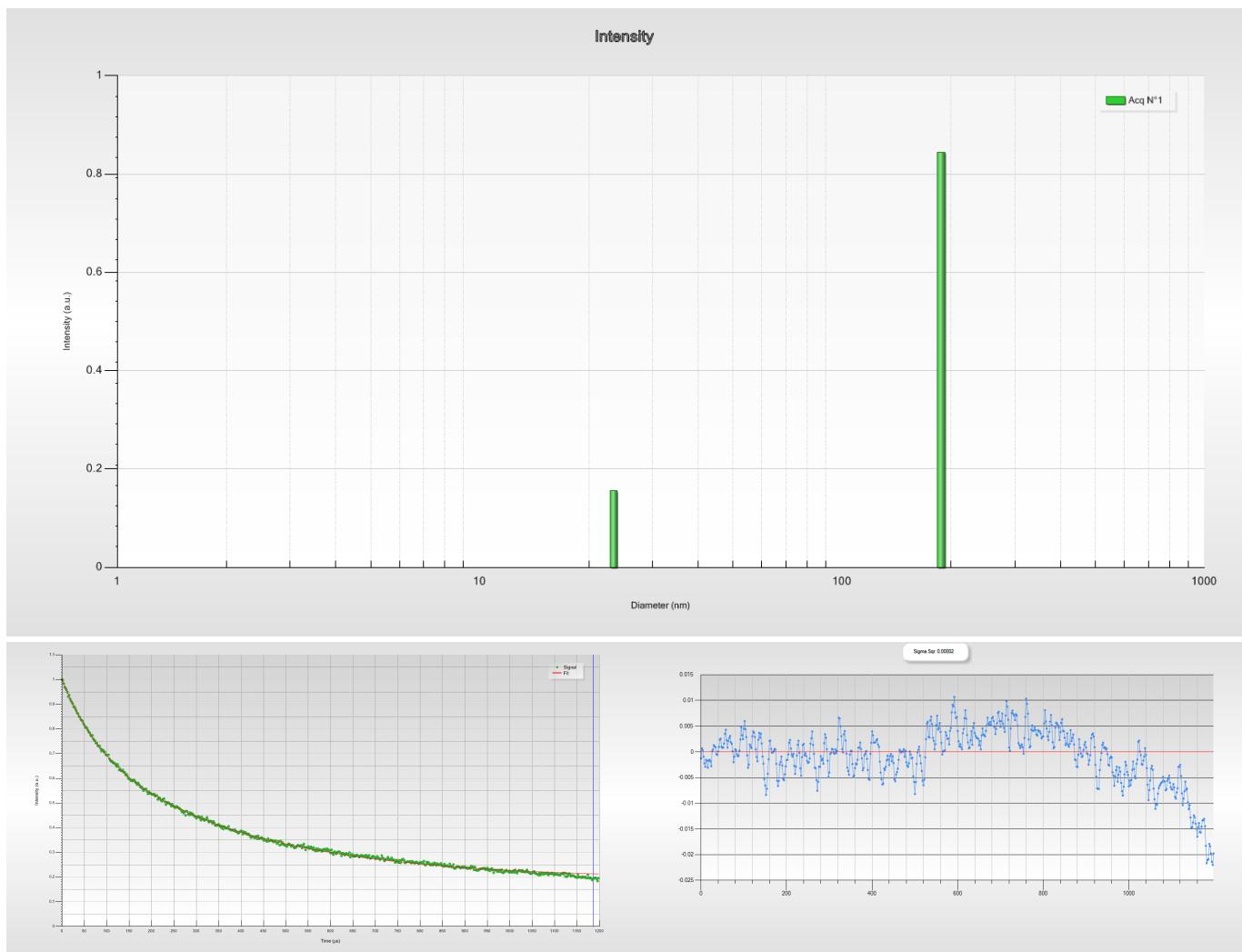
Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
116.21	0.76	2235.93	42.30025E-013

**Distribution statistics****Dn 10%:** 38.94 nm**Dn 50%:** 61.83 nm**Dn 90%:** 102.81 nm**Mean Number:** 67.86 nm**PDI** : 0.60133**Std Dev:** 38.77%**Detected size(s)**

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
116.21	0.76	2235.93	42.30025E-013

**Distribution statistics****D_v 10%:** 59.03 nm**D_v 50%:** 98.17 nm**D_v 90%:** 170.97 nm**Mean Volume:** 111.66 nm**PDI** : 0.60133**Std Dev:** 38.77%**Detected size(s)**

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
116.21	0.76	2235.93	42.30025E-013



Dispersion statistics

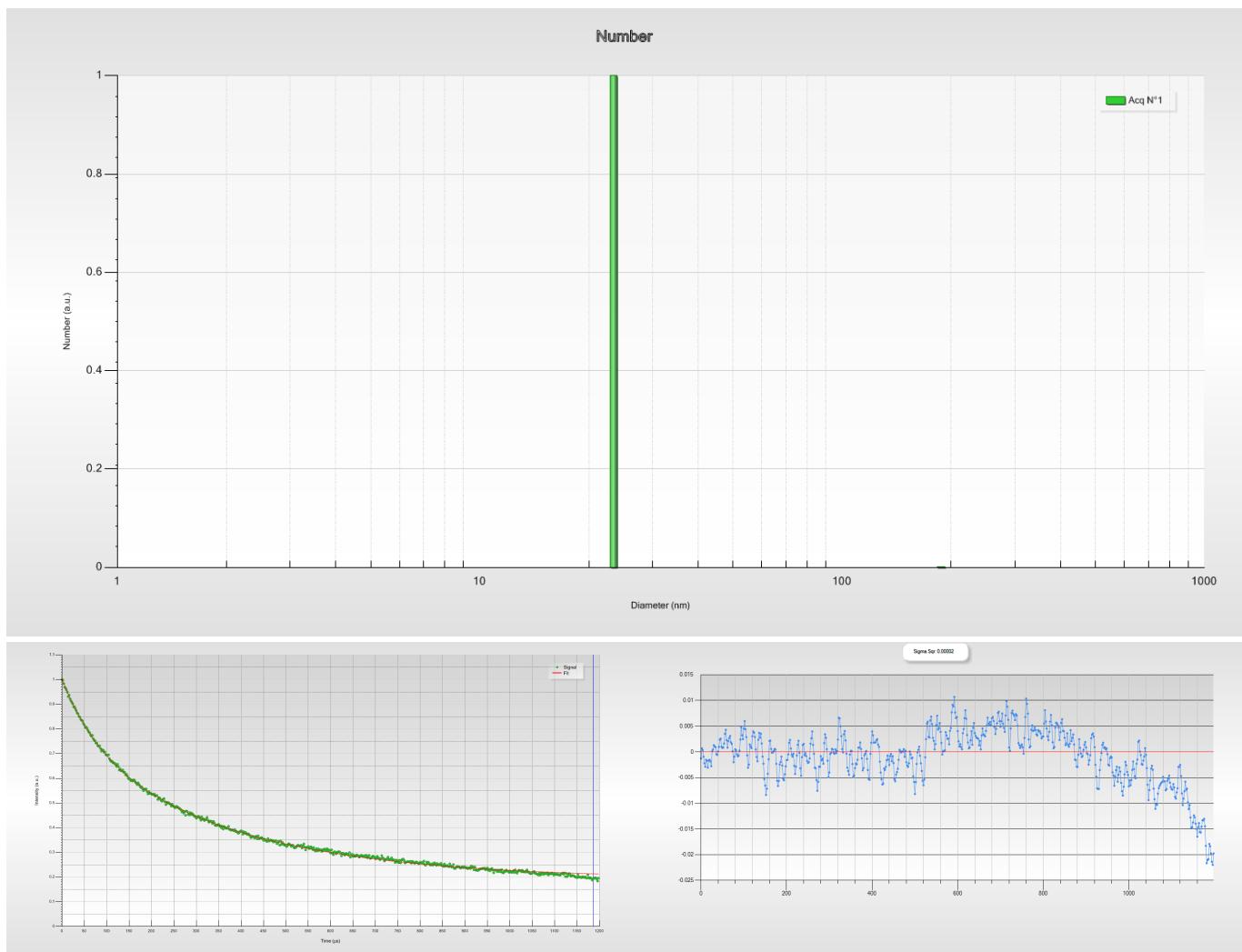
Di 10%: 23.41 nm **Di 50%:** 187.54 nm **Di 90%:** 187.54 nm
Mean Intensity: 161.86 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
23.64	0.14	10987.79	20.78712E-012
184.81	0.76	1405.68	26.59319E-013

Dispersion data

Size (nm)	Intensity	Size (nm)	Intensity
23.41	0.16	187.54	0.84



Dispersion statistics

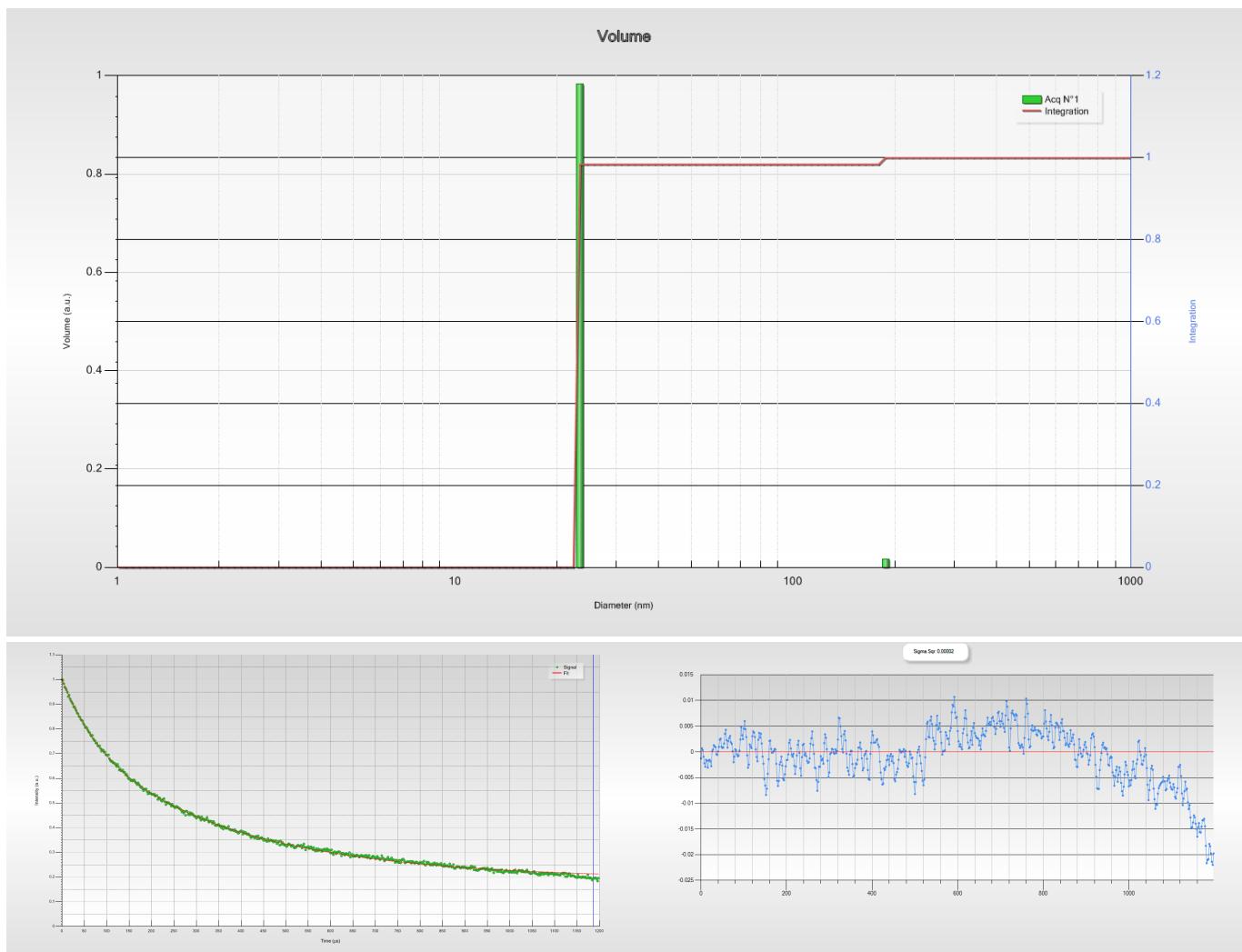
Dn 10%: 23.41 nm **Dn 50%:** 23.41 nm **Dn 90%:** 23.41 nm
Mean Number: 23.42 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
23.64	0.14	10987.79	20.78712E-012
184.81	0.76	1405.68	26.59319E-013

Dispersion data

Size (nm)	Number
23.41	1



Dispersion statistics

D_v 10%: 23.41 nm **D_v 50%:** 23.41 nm **D_v 90%:** 23.41 nm
Mean Volume: 26.07 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
23.64	0.14	10987.79	20.78712E-012
184.81	0.76	1405.68	26.59319E-013

Dispersion data

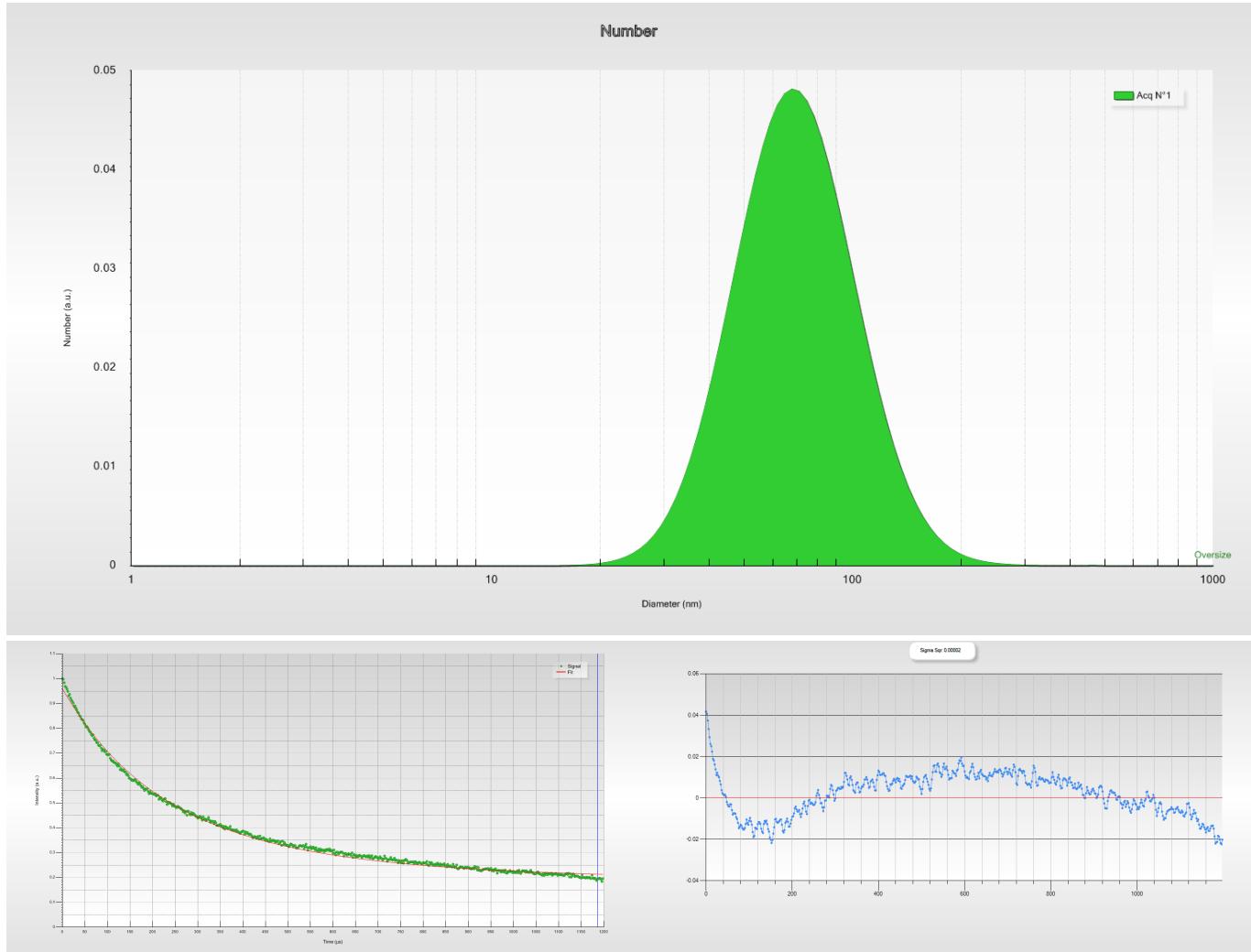
Size (nm)	Volume	Size (nm)	Volume
23.41	0.98	187.54	0.02

**Distribution statistics**

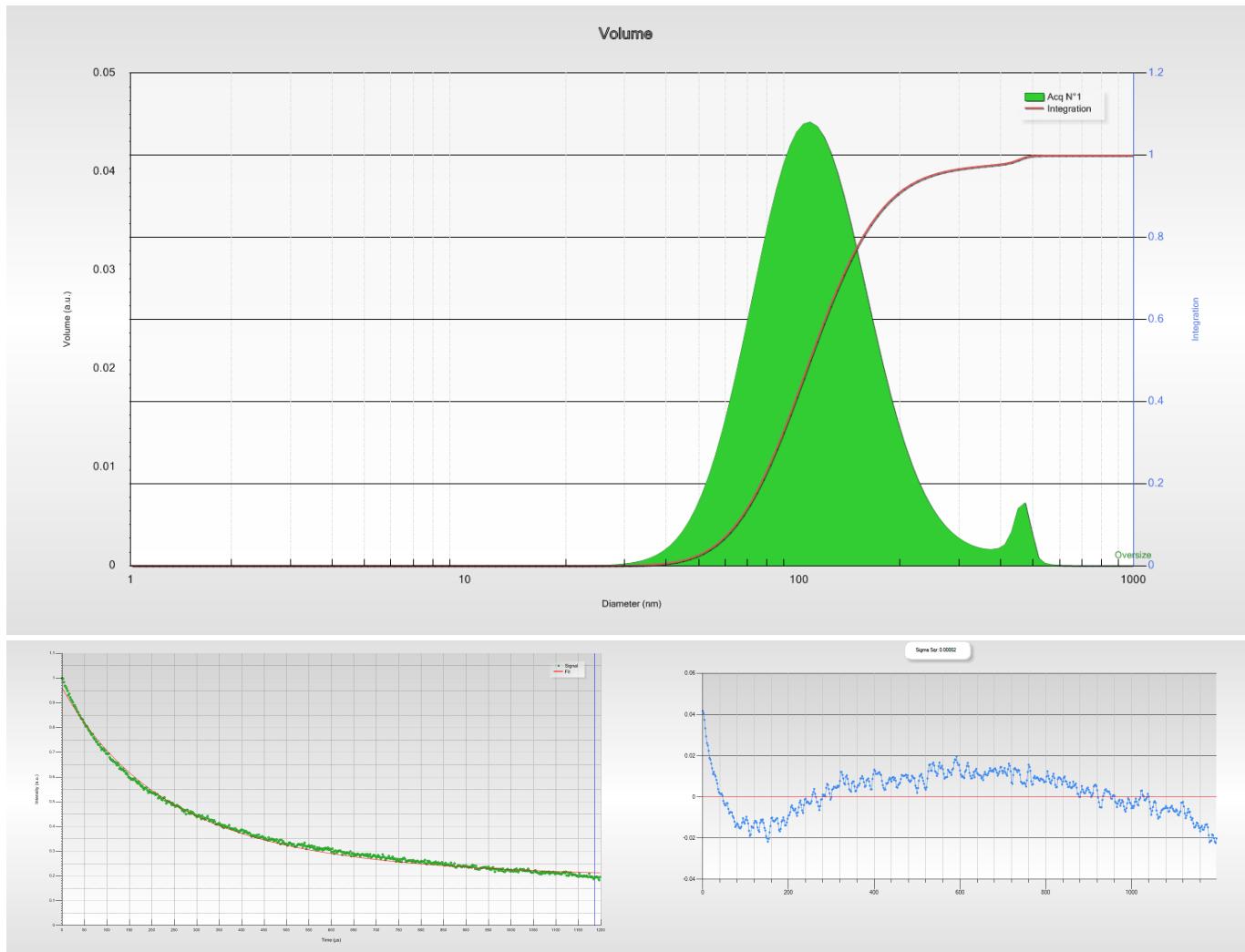
Di 10%: 98.17 nm	Di 50%: 155.87 nm	Di 90%: 247.5 nm
Mean Intensity: 167 nm		
PDI : 0.59983		Std Dev: 38.72%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
126.26	0.77	2057.54	38.92537E-013

**Distribution statistics** **$Dn\ 10\%:$** 42.71 nm **$Dn\ 50\%:$** 67.81 nm **$Dn\ 90\%:$** 112.77 nm**Mean Number:** 74.24 nm**PDI** : 0.59983**Std Dev:** 38.72%**Detected size(s)**

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
126.26	0.77	2057.54	38.92537E-013



Distribution statistics

D_v 10%: 64.75 nm

D_v 50%: 107.68 nm

D_v 90%: 196.41 nm

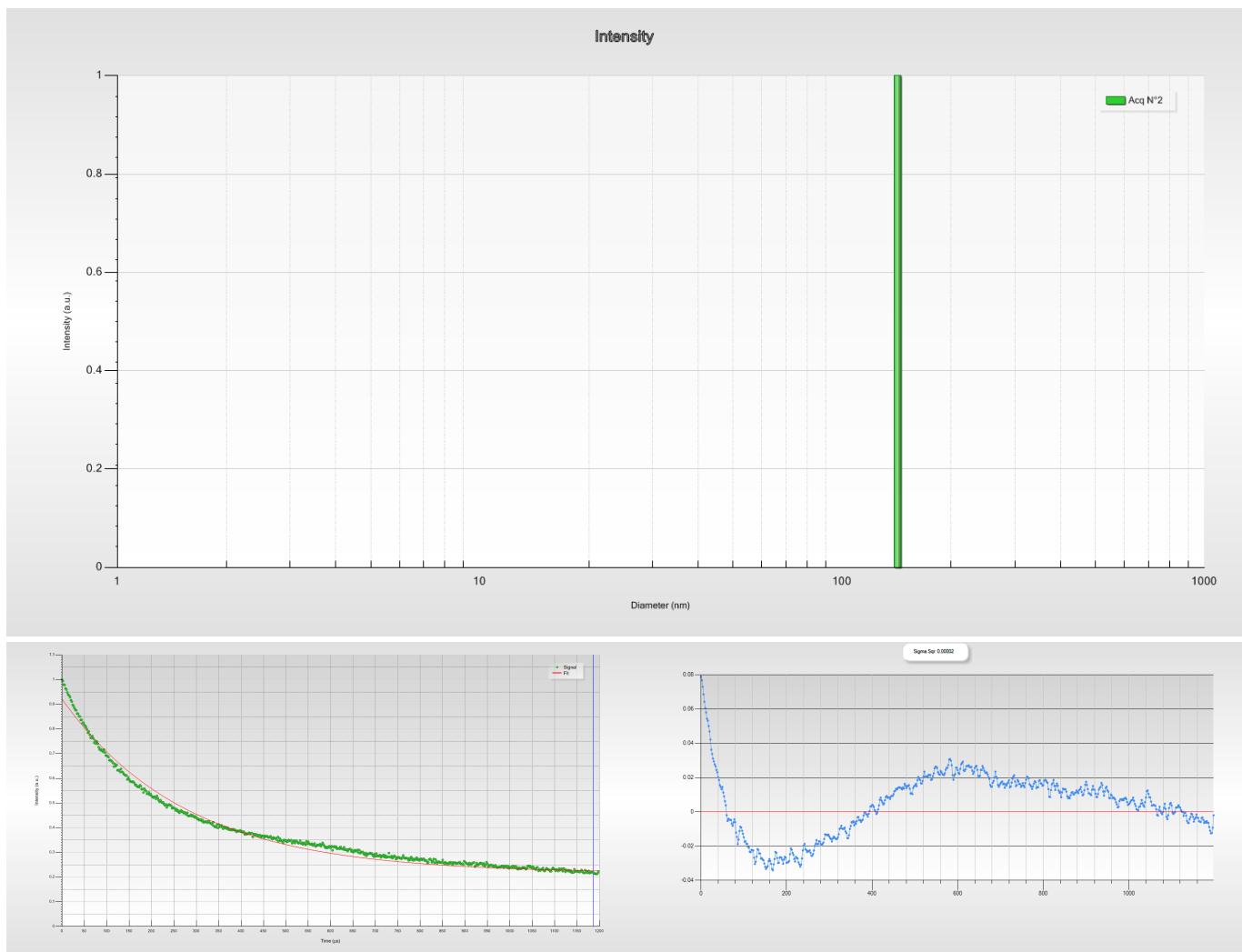
Mean Volume: 127.51 nm

PDI : 0.59983

Std Dev: 38.72%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
126.26	0.77	2057.54	38.92537E-013



Dispersion statistics

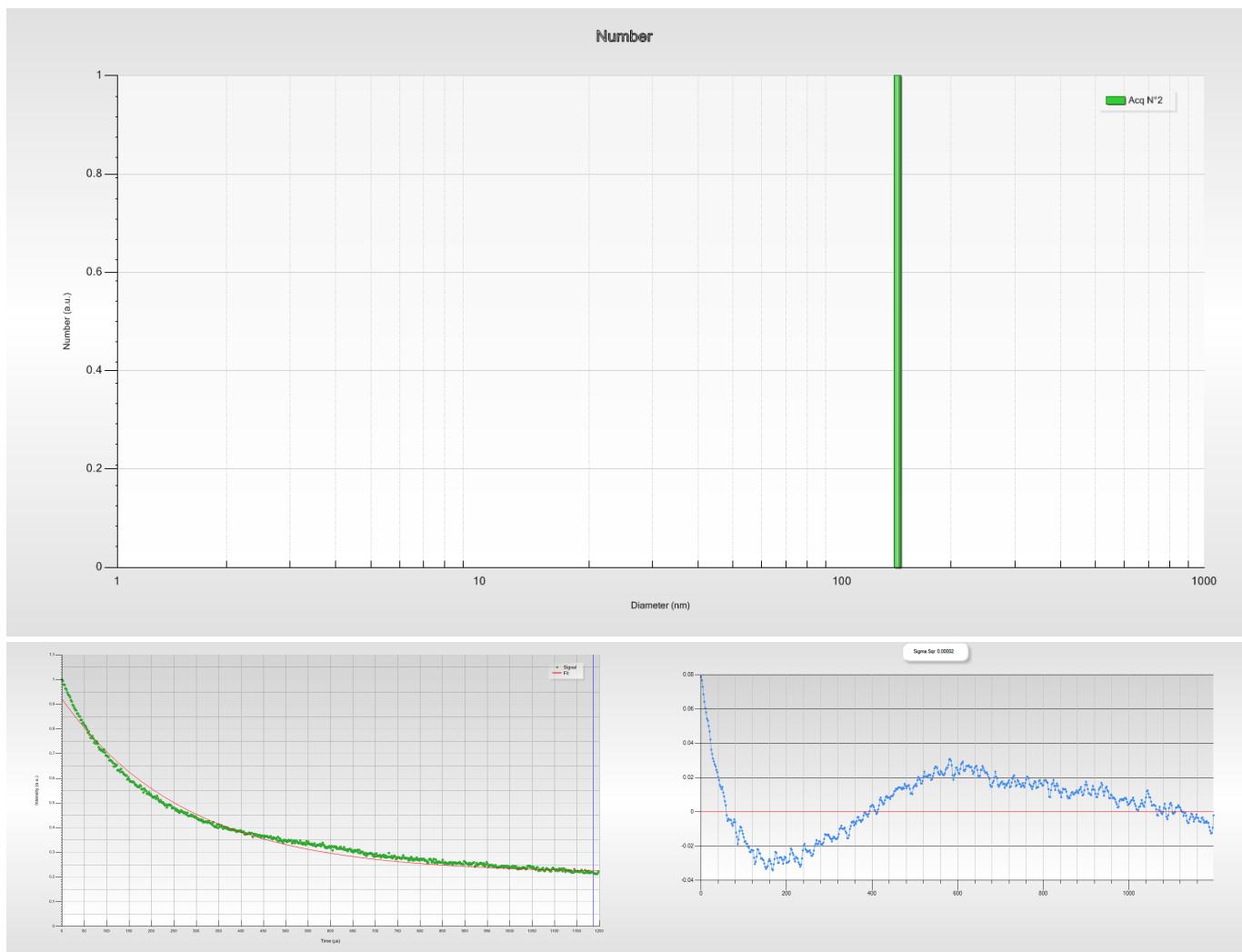
Di 10%: 142.11 nm **Di 50%:** 142.11 nm **Di 90%:** 142.11 nm
Mean Intensity: 142.11 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
143.95	0.84	1804.71	34.14216E-013

Dispersion datas

Size (nm)	Intensity
142.11	1



Dispersion statistics

Dn 10%: 142.11 nm
Mean Number: 142.11 nm

Dn 50%: 142.11 nm

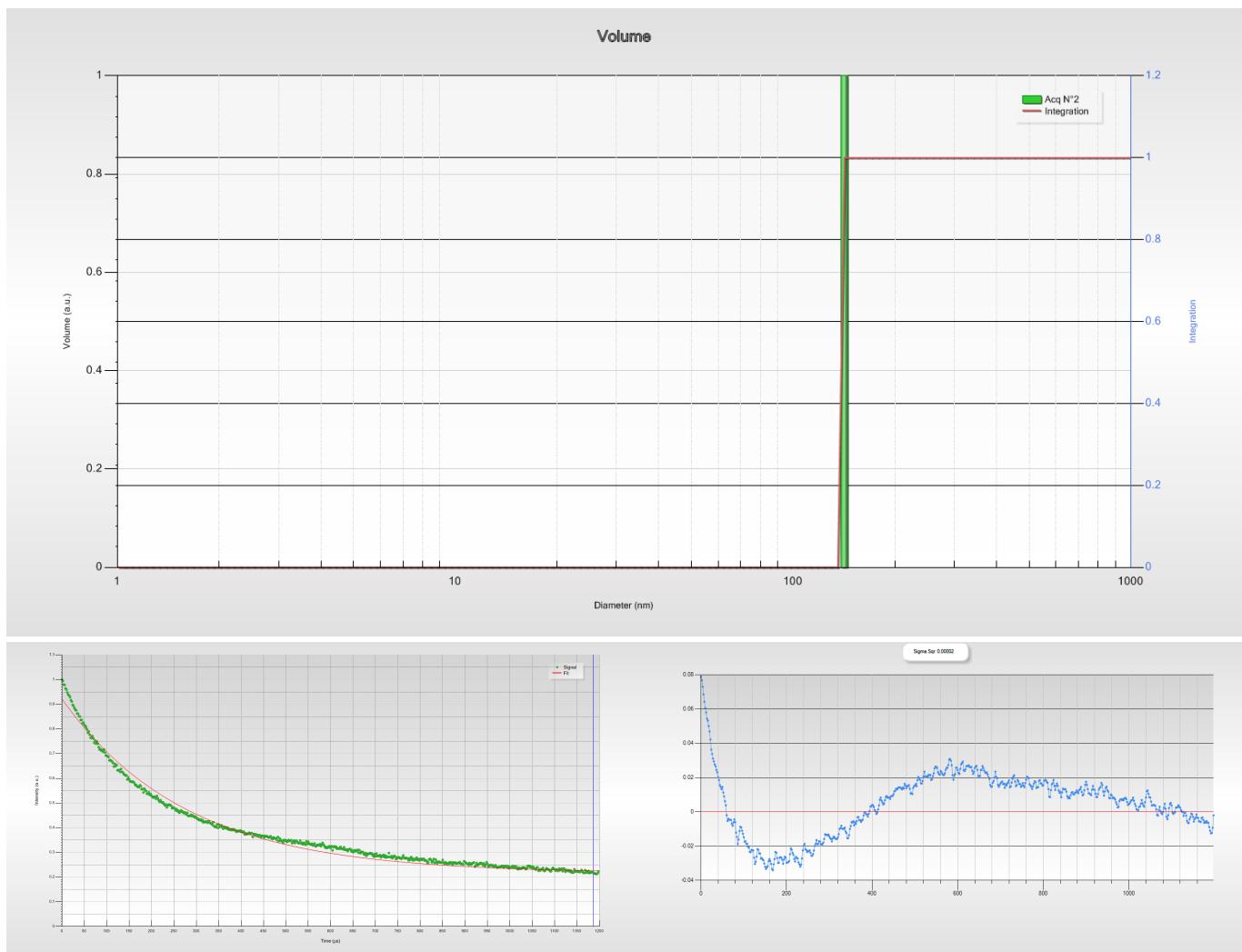
Dn 90%: 142.11 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
143.95	0.84	1804.71	34.14216E-013

Dispersion datas

Size (nm)	Number
142.11	1



Dispersion statistics

D_v 10%: 142.11 nm
Mean Volume: 142.11 nm

D_v 50%: 142.11 nm

D_v 90%: 142.11 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
143.95	0.84	1804.71	34.14216E-013

Dispersion datas

Size (nm)	Volume
142.11	1



Distribution statistics

Di 10%: 89.5 nm	Di 50%: 148.83 nm	Di 90%: 236.32 nm
Mean Intensity: 156.91 nm		
PDI : 0.65295		Std Dev: 40.4%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
115.94	0.75	2240.71	42.39063E-013

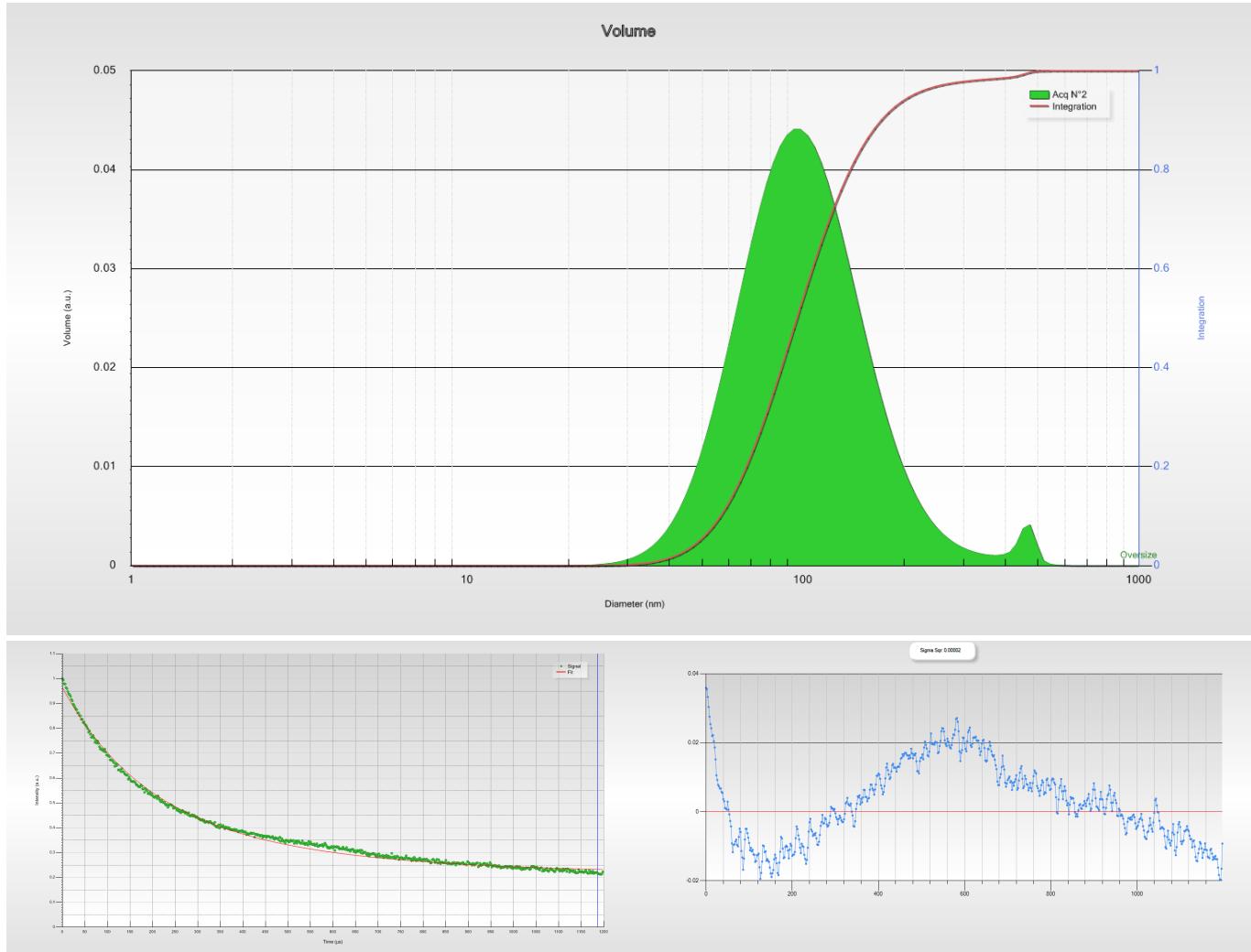


Distribution statistics

Dn 10%: 35.5 nm	Dn 50%: 59.03 nm	Dn 90%: 98.17 nm
Mean Number: 64.78 nm		
PDI : 0.65295		Std Dev: 40.4%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
115.94	0.75	2240.71	42.39063E-013



Distribution statistics

D_v 10%: 59.03 nm

D_v 50%: 98.17 nm

D_v 90%: 170.97 nm

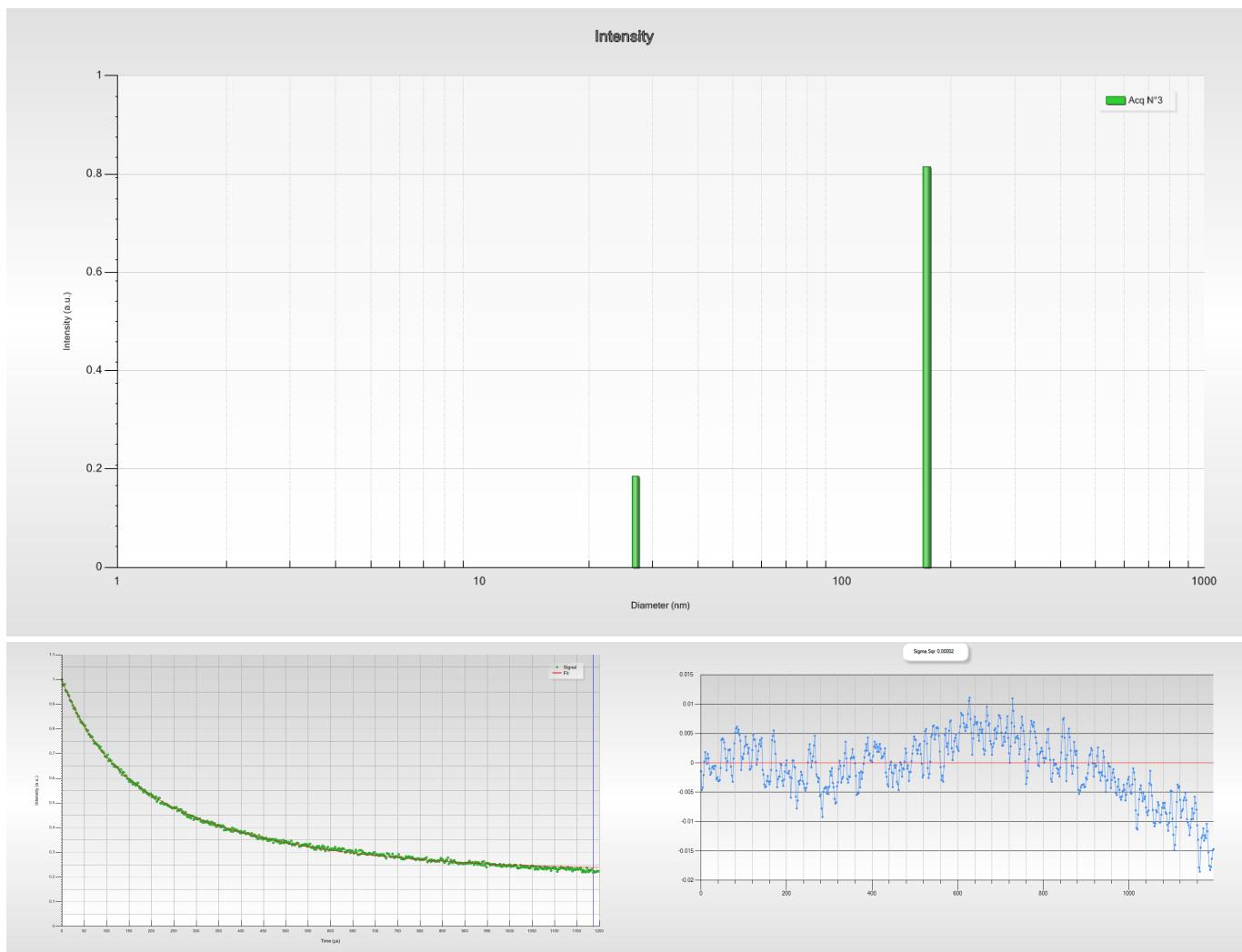
Mean Volume: 112.79 nm

PDI : 0.65295

Std Dev: 40.4%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
115.94	0.75	2240.71	42.39063E-013



Dispersion statistics

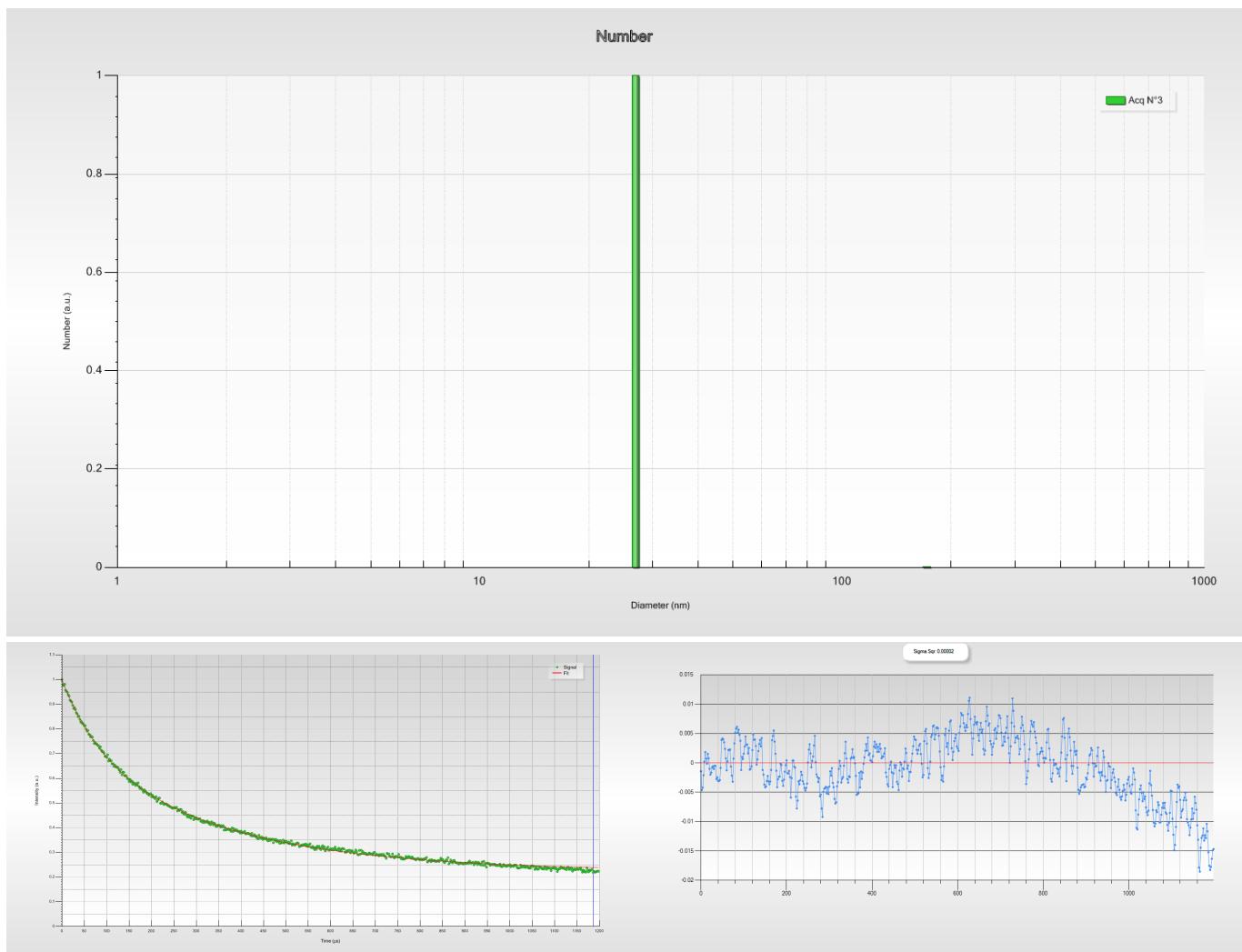
Di 10%: 26.9 nm **Di 50%:** 170.97 nm **Di 90%:** 170.97 nm
Mean Intensity: 144.28 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
26.91	0.16	9652.65	18.26125E-012
172.19	0.72	1508.76	28.54327E-013

Dispersion data

Size (nm)	Intensity	Size (nm)	Intensity
26.9	0.19	170.97	0.81



Dispersion statistics

Dn 10%: 26.9 nm
Mean Number: 26.91 nm

Dn 50%: 26.9 nm

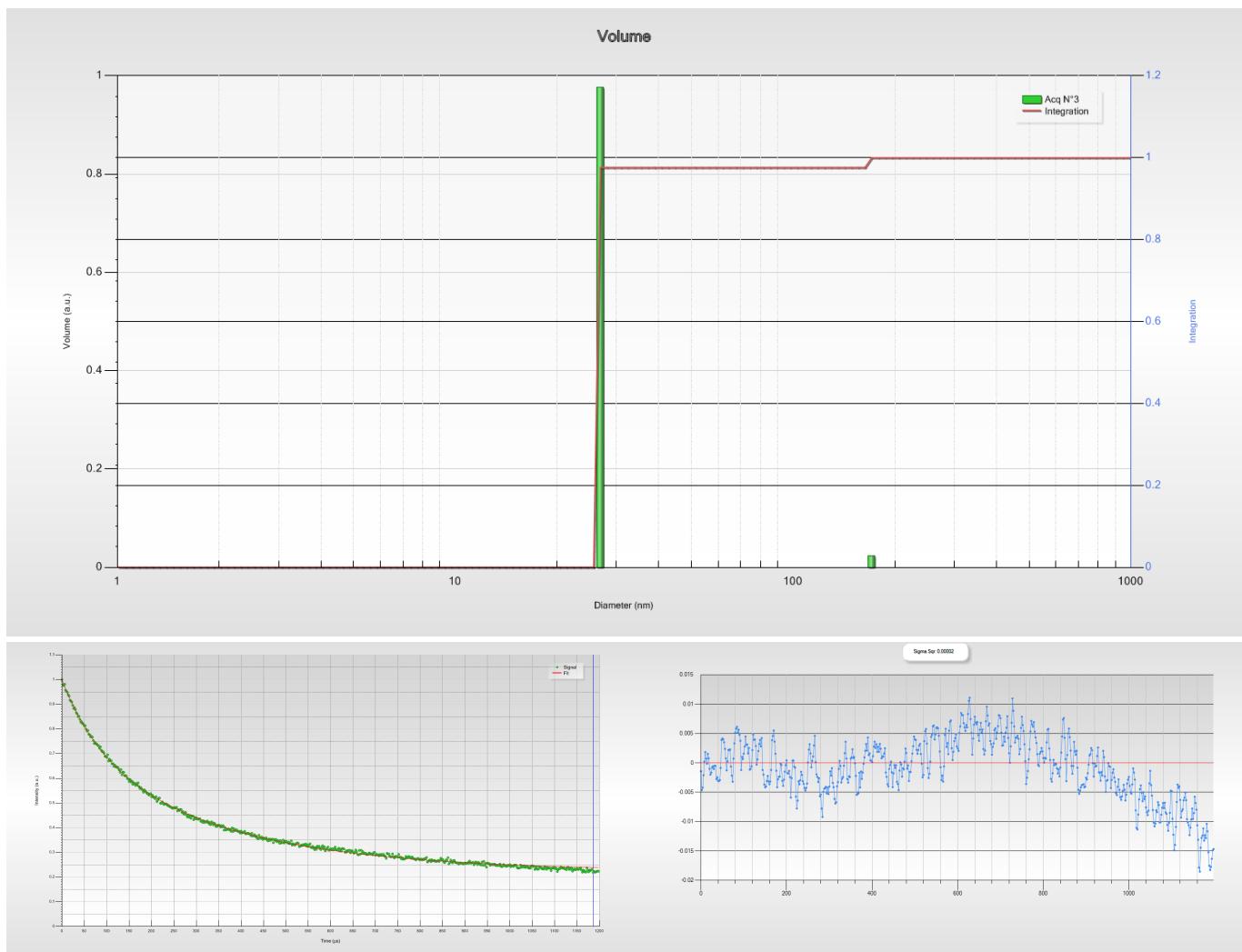
Dn 90%: 26.9 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
26.91	0.16	9652.65	18.26125E-012
172.19	0.72	1508.76	28.54327E-013

Dispersion data

Size (nm)	Number
26.9	1



Dispersion statistics

Dv 10%: 26.9 nm
Mean Volume: 30.35 nm

Dv 50%: 26.9 nm

Dv 90%: 26.9 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
26.91	0.16	9652.65	18.26125E-012
172.19	0.72	1508.76	28.54327E-013

Dispersion data

Size (nm)	Volume	Size (nm)	Volume
26.9	0.98	170.97	0.02

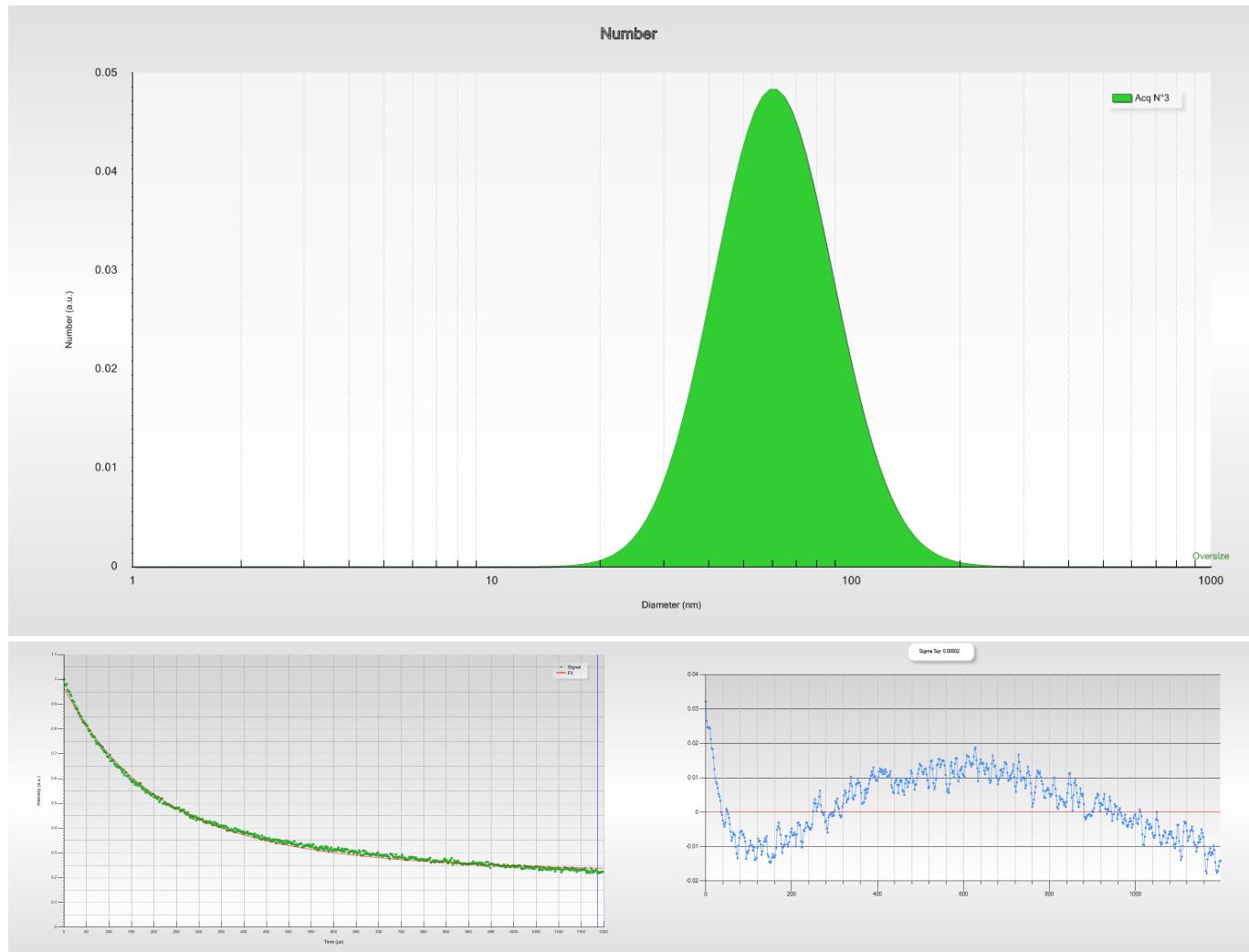


Distribution statistics

Di 10%: 85.45 nm	Di 50%: 135.68 nm	Di 90%: 225.64 nm
Mean Intensity: 147.99 nm		
PDI : 0.59891		Std Dev: 38.69%

Detected size(s)

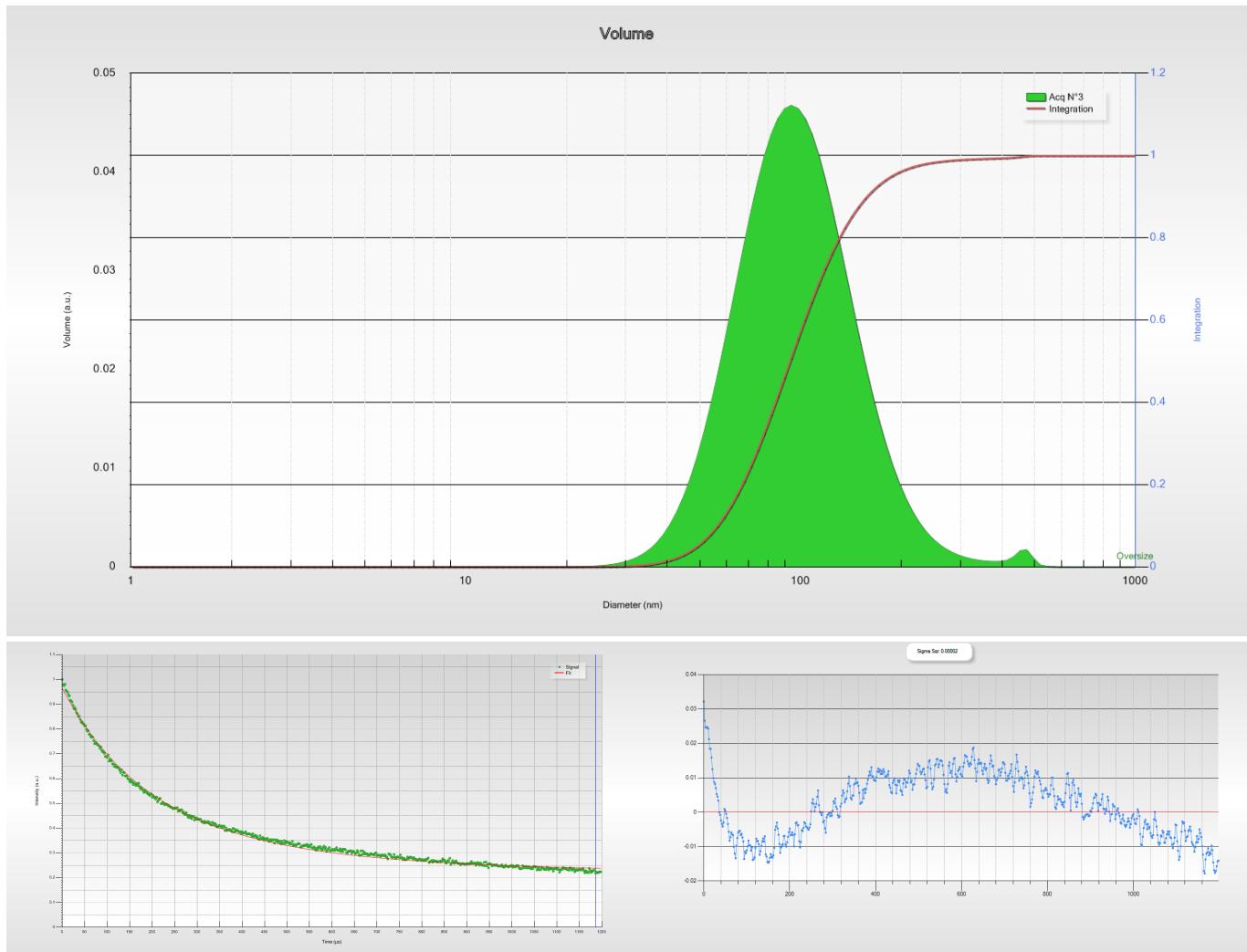
Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
111.93	0.74	2320.94	43.90842E-013

**Distribution statistics**

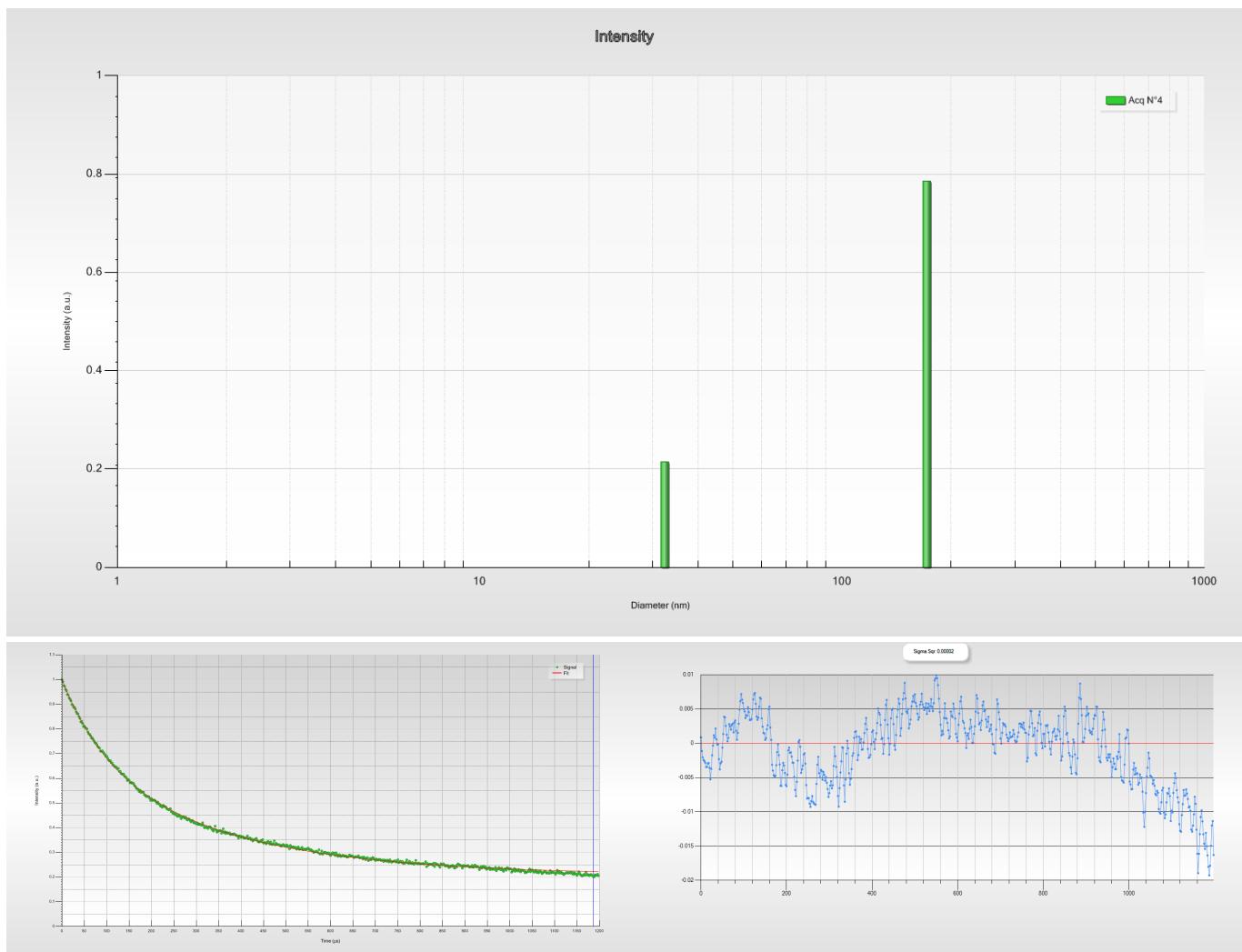
Dn 10%: 37.18 nm	Dn 50%: 61.83 nm	Dn 90%: 98.17 nm
Mean Number: 65.39 nm		
PDI : 0.59891		Std Dev: 38.69%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
111.93	0.74	2320.94	43.90842E-013

**Distribution statistics****D_v 10%:** 59.03 nm**D_v 50%:** 93.73 nm**D_v 90%:** 163.25 nm**Mean Volume:** 105.86 nm**PDI** : 0.59891**Std Dev:** 38.69%**Detected size(s)**

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m²/s)
111.93	0.74	2320.94	43.90842E-013



Dispersion statistics

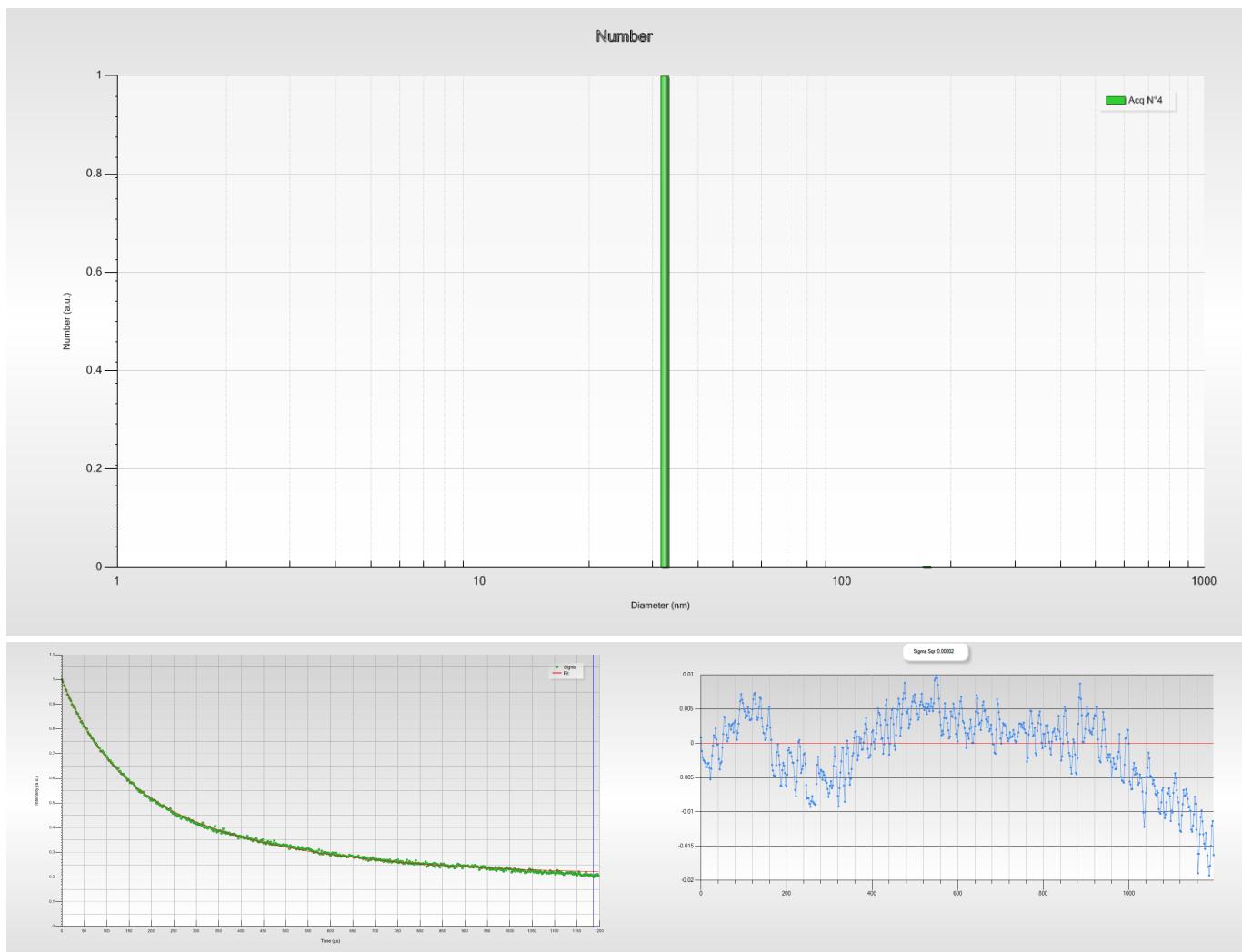
Di 10%: 32.36 nm **Di 50%:** 170.97 nm **Di 90%:** 170.97 nm
Mean Intensity: 141.3 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
32.38	0.19	8023.21	15.17861E-012
174.69	0.7	1487.1	28.13357E-013

Dispersion data

Size (nm)	Intensity	Size (nm)	Intensity
32.36	0.21	170.97	0.79



Dispersion statistics

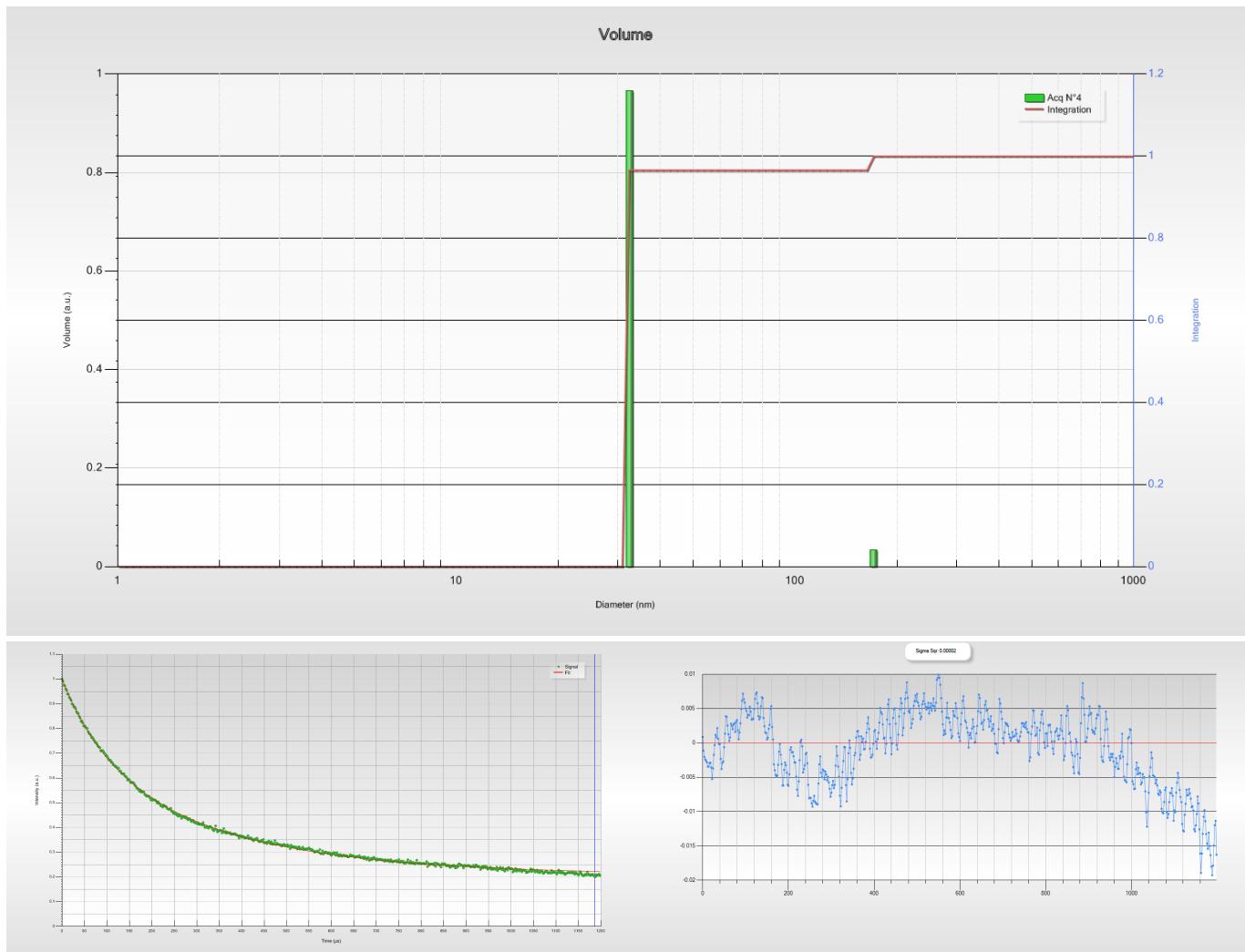
Dn 10%: 32.36 nm **Dn 50%:** 32.36 nm **Dn 90%:** 32.36 nm
Mean Number: 32.4 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
32.38	0.19	8023.21	15.17861E-012
174.69	0.7	1487.1	28.13357E-013

Dispersion data

Size (nm)	Number
32.36	1



Dispersion statistics

D_v 10%: 32.36 nm
Mean Volume: 37.12 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)
32.38	0.19	8023.21	15.17861E-012
174.69	0.7	1487.1	28.13357E-013

Dispersion data

Size (nm)	Volume	Size (nm)	Volume
32.36	0.97	170.97	0.03

**Distribution statistics**

Di 10%: 85.45 nm	Di 50%: 135.68 nm	Di 90%: 215.44 nm
Mean Intensity: 143.91 nm		
PDI : 0.58699		Std Dev: 38.31%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
109.41	0.76	2374.34	44.91874E-013

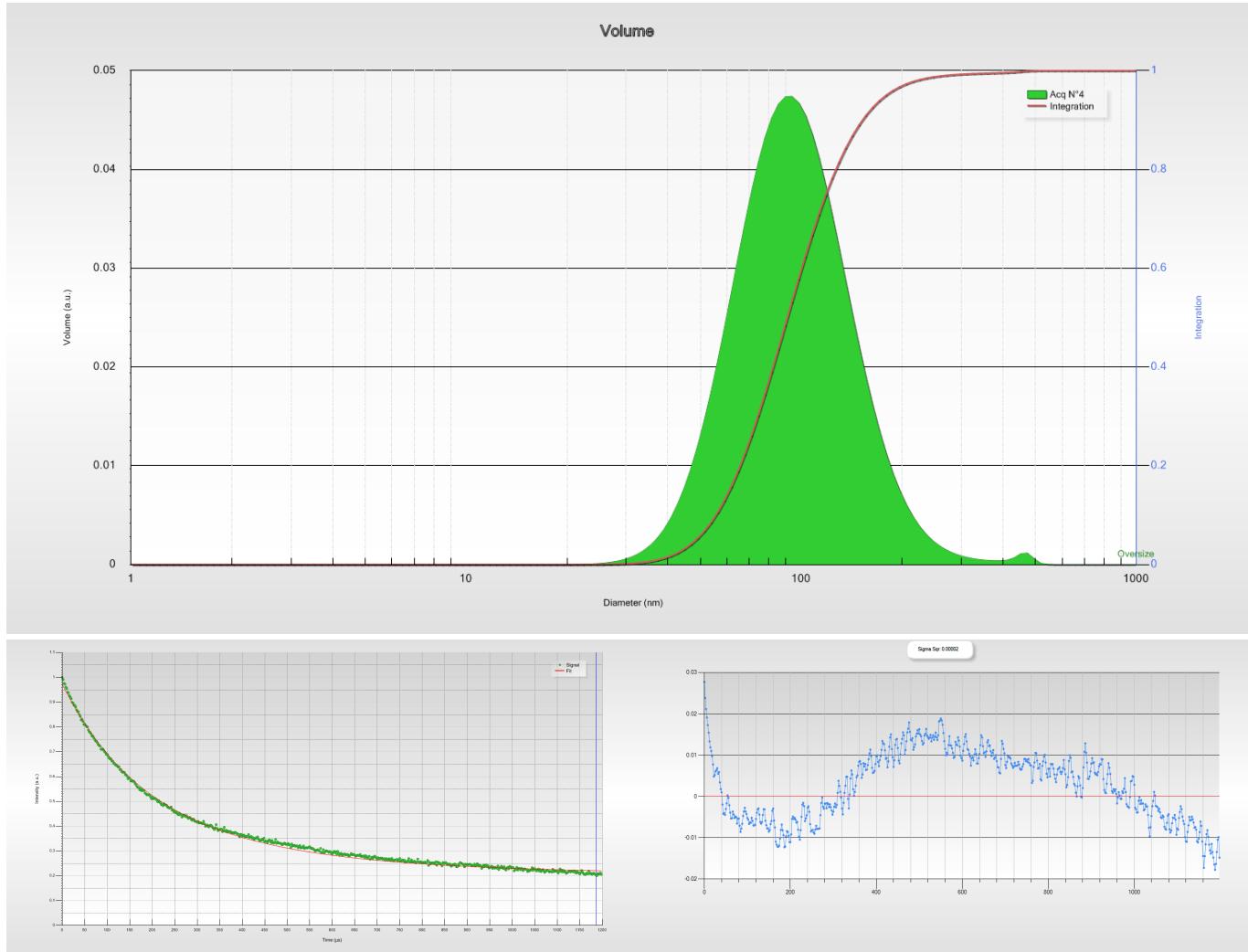


Distribution statistics

Dn 10%: 37.18 nm	Dn 50%: 59.03 nm	Dn 90%: 98.17 nm
Mean Number: 64.51 nm		
PDI : 0.58699		Std Dev: 38.31%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
109.41	0.76	2374.34	44.91874E-013



Distribution statistics

D_v 10%: 56.36 nm

D_v 50%: 93.73 nm

D_v 90%: 155.87 nm

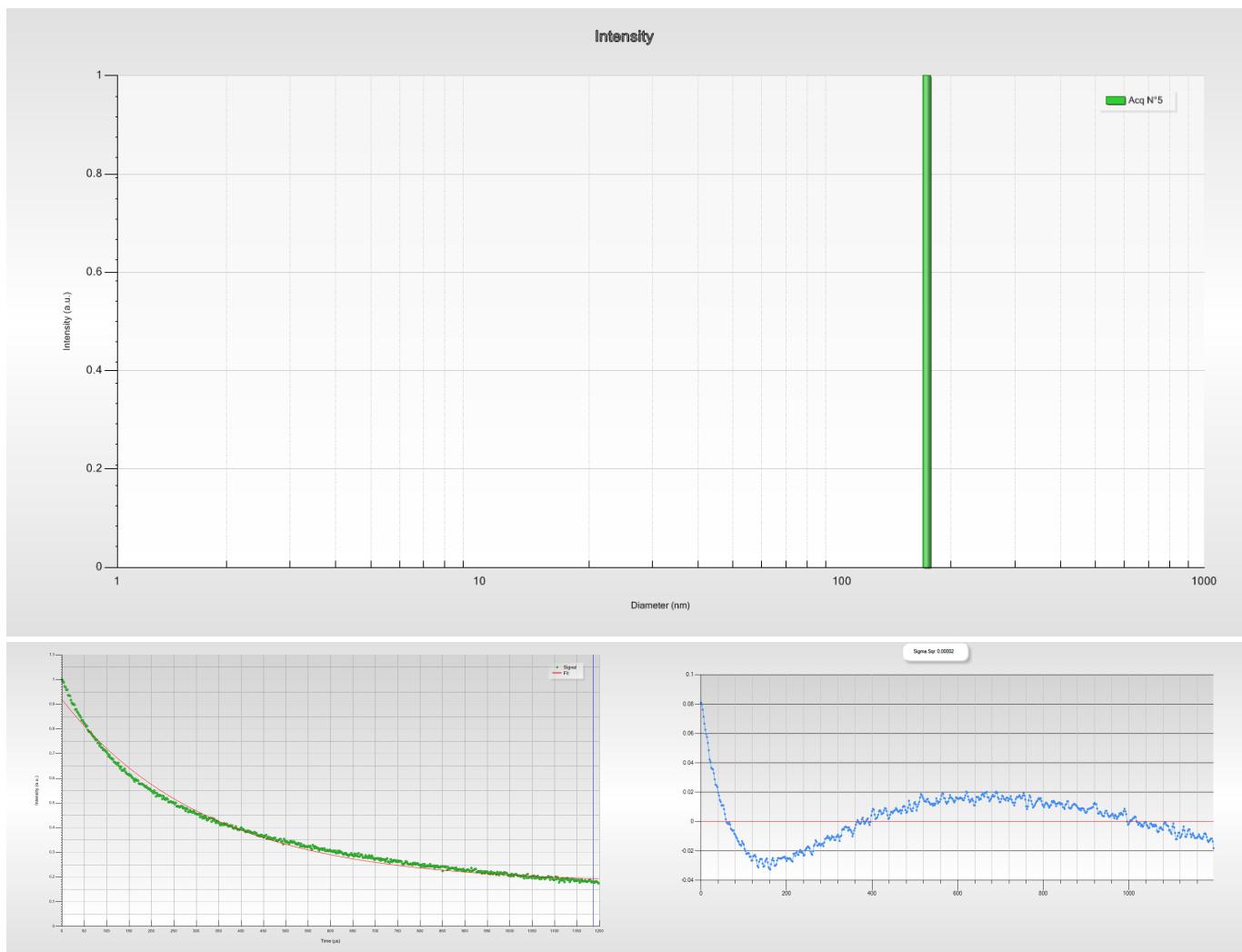
Mean Volume: 102.57 nm

PDI : 0.58699

Std Dev: 38.31%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
109.41	0.76	2374.34	44.91874E-013



Dispersion statistics

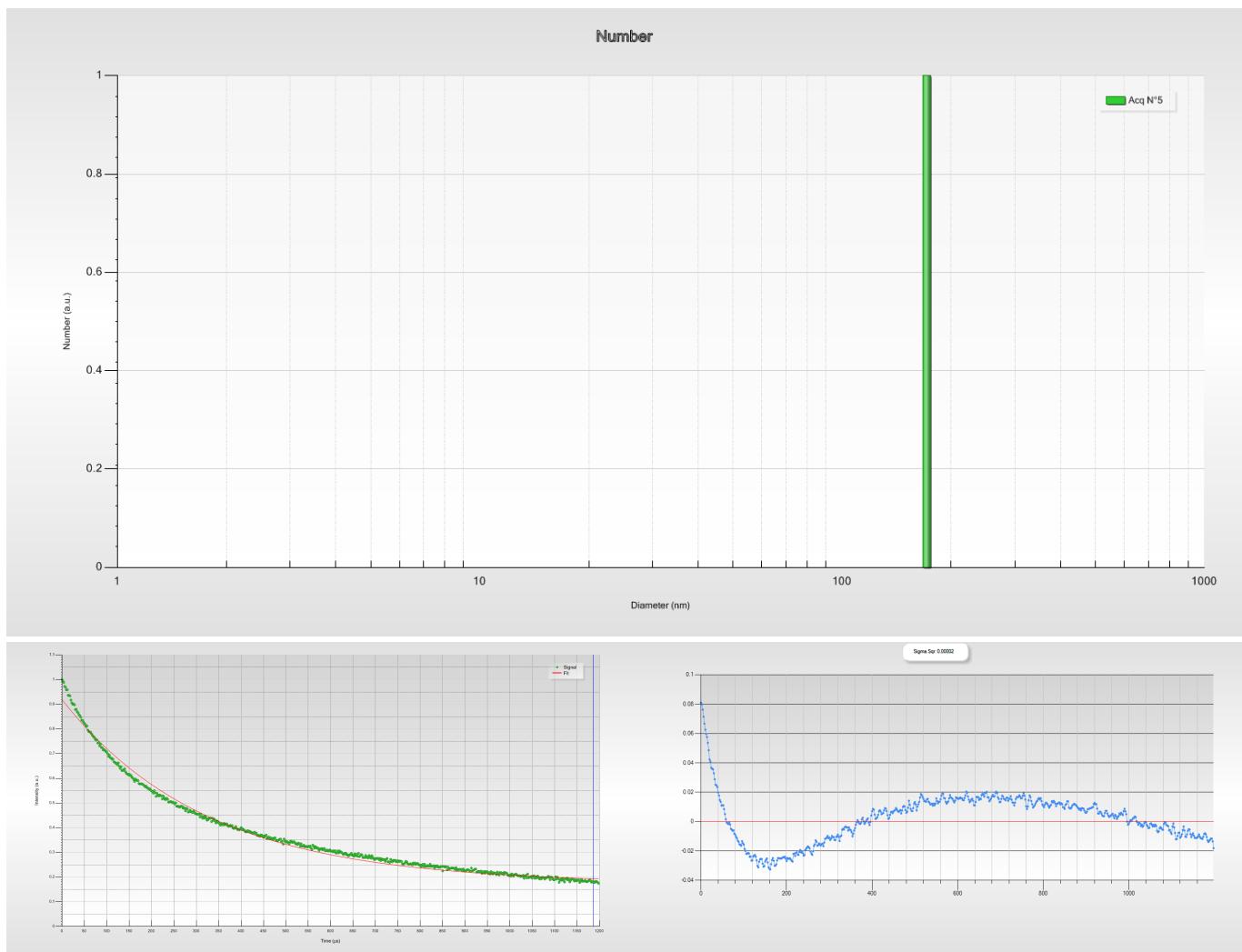
Di 10%: 170.97 nm **Di 50%:** 170.97 nm **Di 90%:** 170.97 nm
Mean Intensity: 170.97 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
167.56	0.86	1550.44	29.33173E-013

Dispersion datas

Size (nm)	Intensity
170.97	1



Dispersion statistics

Dn 10%: 170.97 nm
Mean Number: 170.97 nm

Dn 50%: 170.97 nm

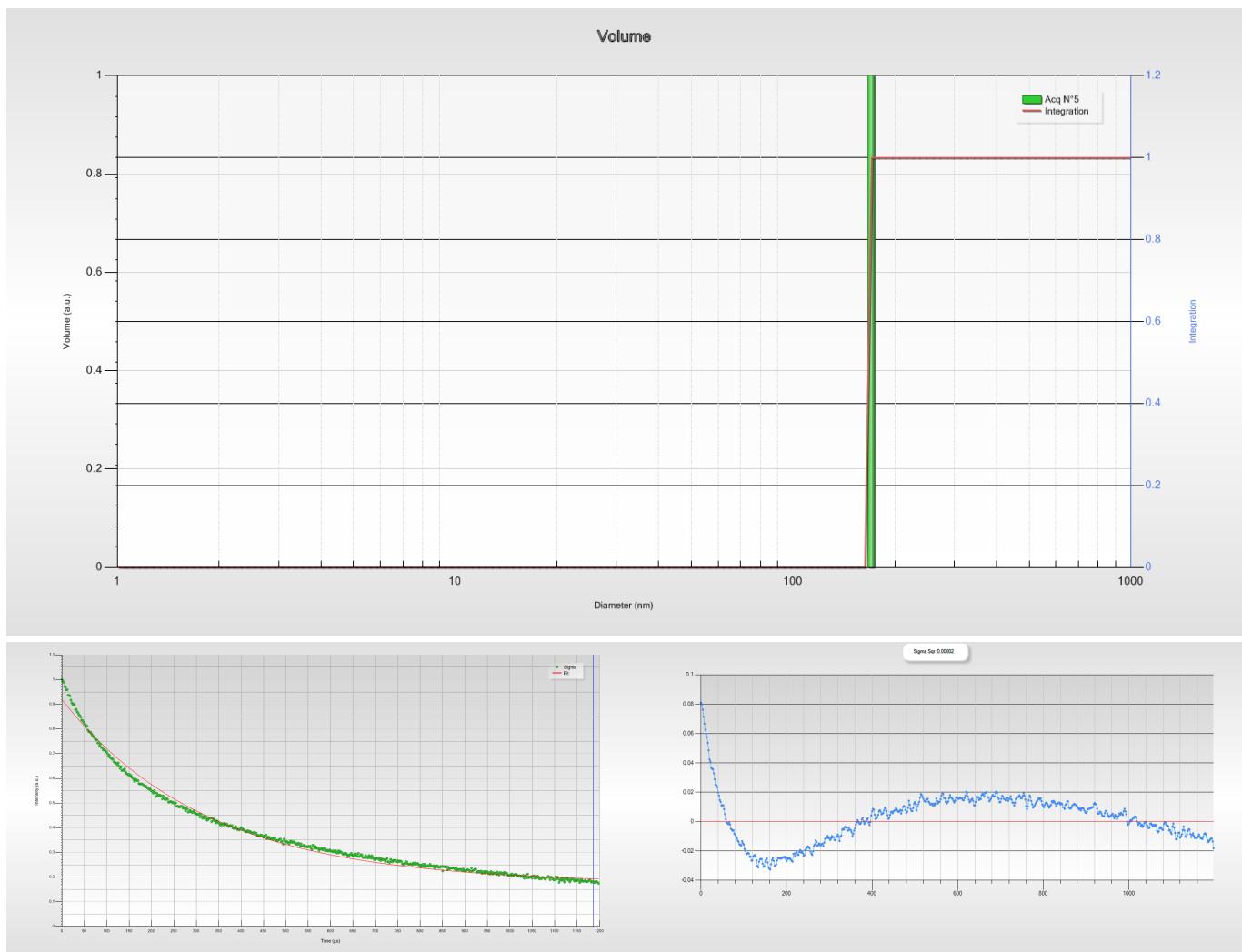
Dn 90%: 170.97 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
167.56	0.86	1550.44	29.33173E-013

Dispersion datas

Size (nm)	Number
170.97	1



Dispersion statistics

D_v 10%: 170.97 nm
Mean Volume: 170.97 nm

D_v 50%: 170.97 nm

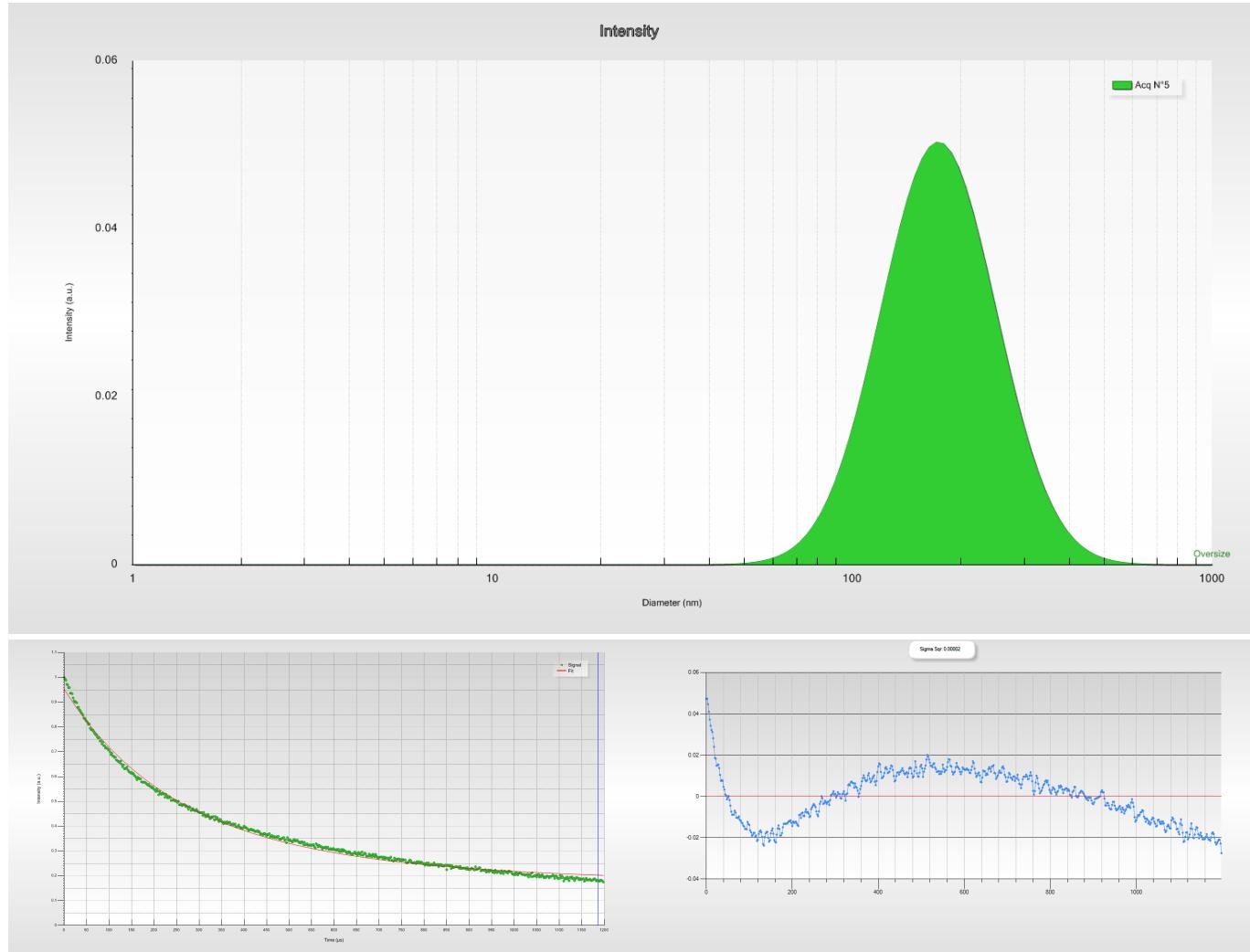
D_v 90%: 170.97 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
167.56	0.86	1550.44	29.33173E-013

Dispersion datas

Size (nm)	Volume
170.97	1

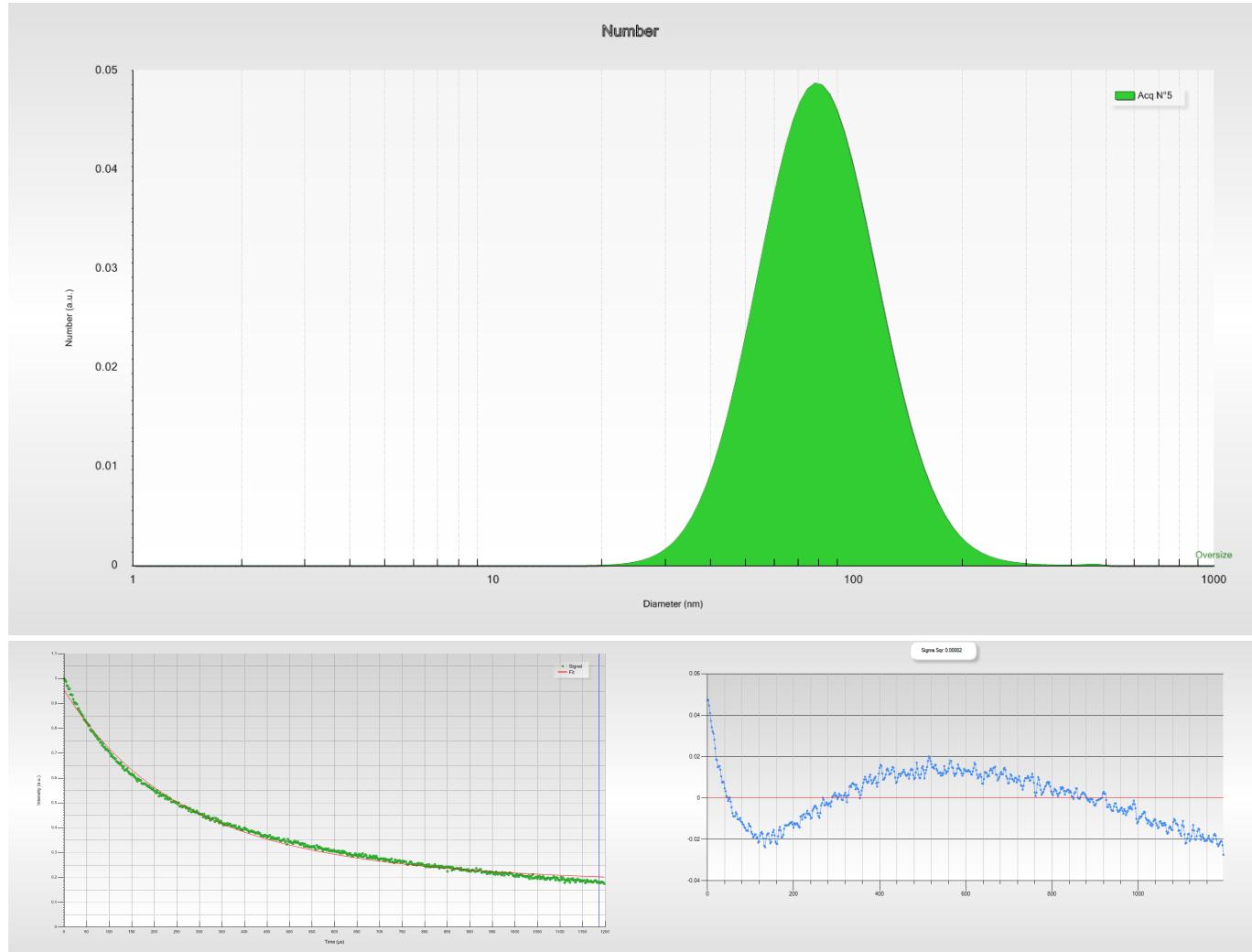


Distribution statistics

Di 10%: 107.68 nm	Di 50%: 170.97 nm	Di 90%: 271.48 nm
Mean Intensity: 185.06 nm		
PDI : 0.57479		Std Dev: 37.91%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
141.45	0.78	1836.59	34.74539E-013



Distribution statistics

Dn 10%: 49.06 nm

Mean Number: 85.89 nm

PDI : 0.57479

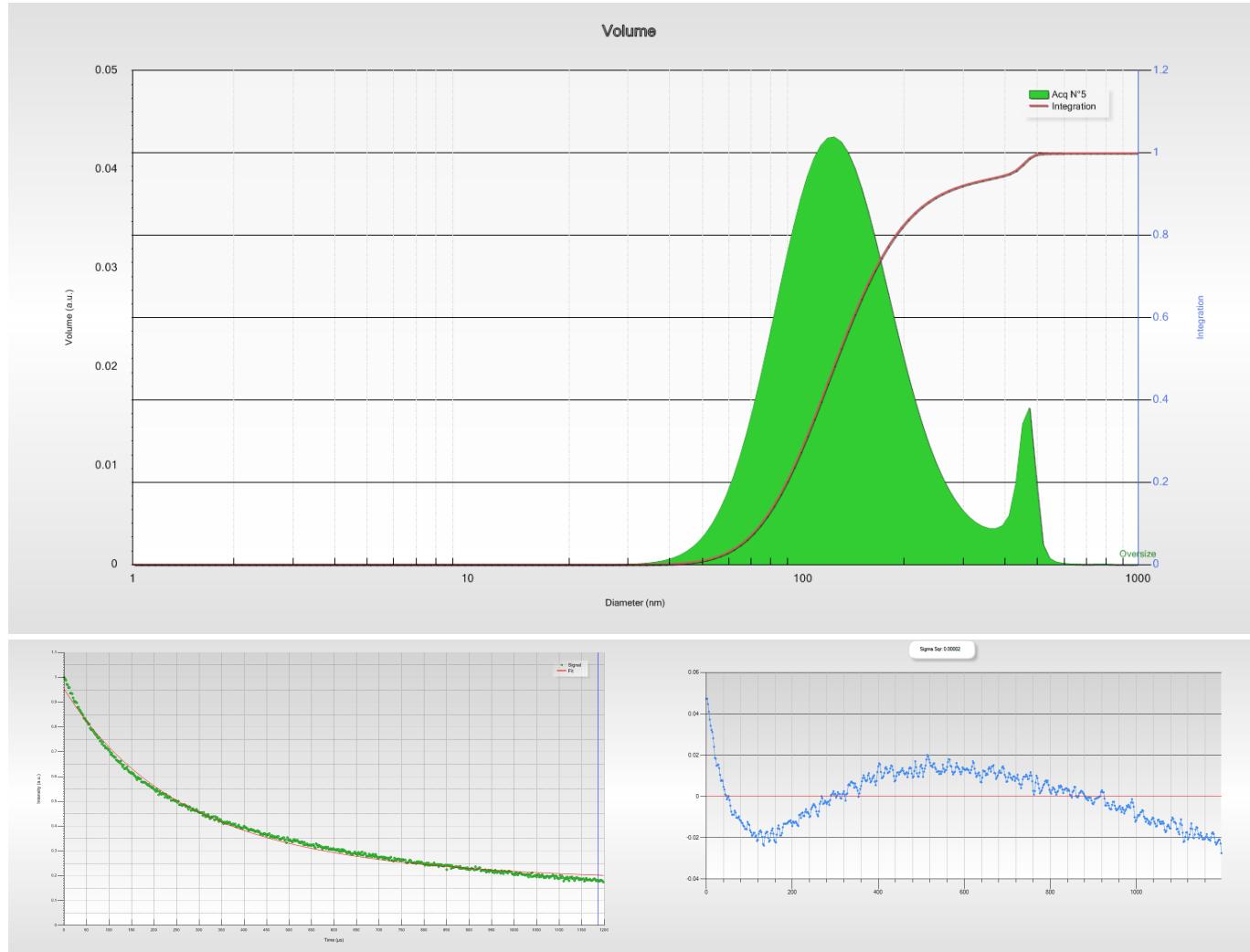
Dn 50%: 77.91 nm

Dn 90%: 129.55 nm

Std Dev: 37.91%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
141.45	0.78	1836.59	34.74539E-013



Distribution statistics

D_v 10%: 77.91 nm

D_v 50%: 129.55 nm

D_v 90%: 259.21 nm

Mean Volume: 156.44 nm

PDI : 0.57479

Std Dev: 37.91%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
141.45	0.78	1836.59	34.74539E-013