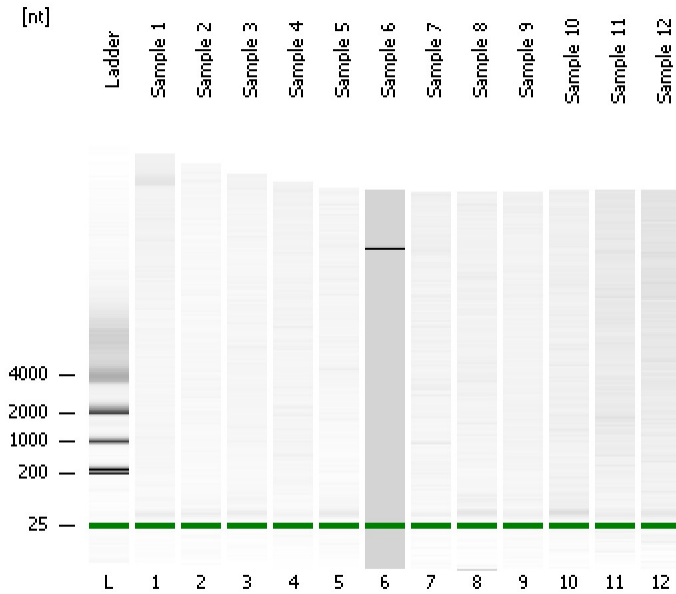


Assay Class: mRNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-11\2016-04-11\_002.xad

Created: 4/11/2016 12:09:44 PM  
Modified: 4/11/2016 12:36:49 PM

**Electrophoresis File Run Summary**



Instrument Information:

Instrument Name: DE13701086      Firmware: C.01.069  
Serial#: DE13701086      Type: G2938B

Assay Information:

Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\RNA\mRNA Nano Series II.xsy

Assay Class: mRNA Nano  
Version: 2.5  
Assay Comments: mRNA Analysis ng sensitivity

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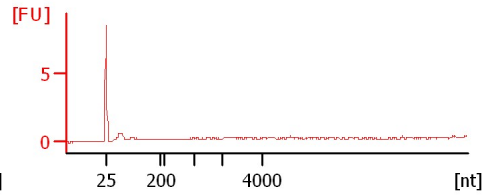
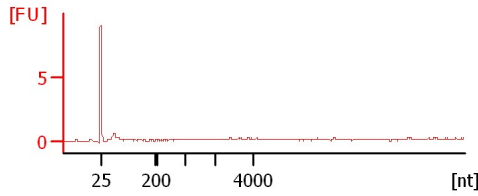
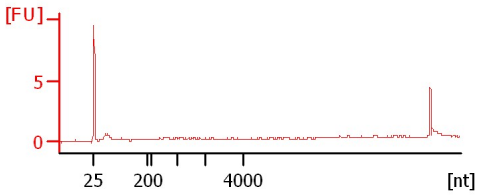
Chip Information:

Chip Lot #:   
Reagent Kit Lot #:   
Chip Comments:

**Sample 1**

**Sample 2**

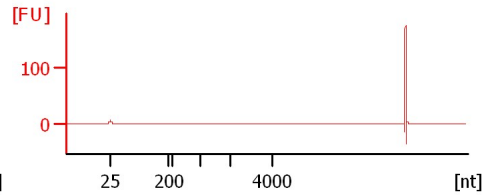
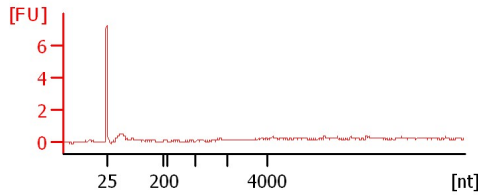
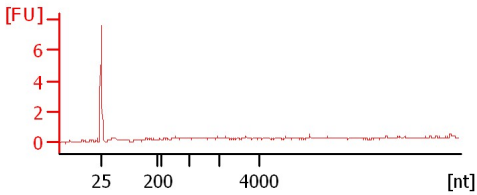
**Sample 3**



**Sample 4**

**Sample 5**

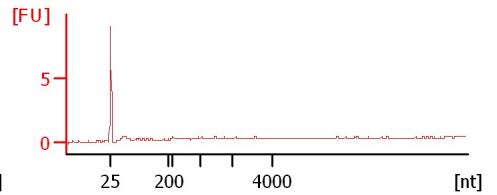
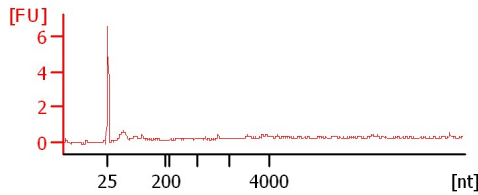
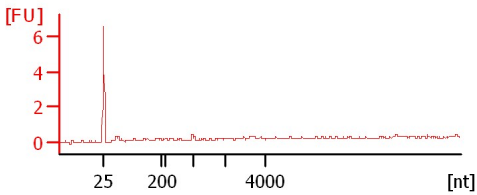
**Sample 6**



**Sample 7**

**Sample 8**

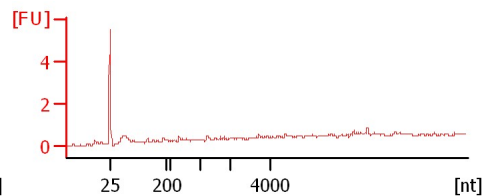
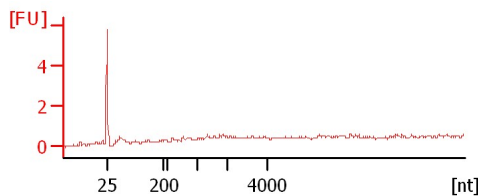
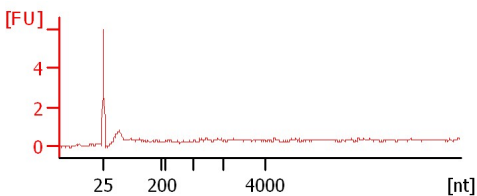
**Sample 9**



**Sample 10**

**Sample 11**

**Sample 12**



Assay Class: mRNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-11\2016-04-11\_002.xad

Created: 4/11/2016 12:09:44 PM  
Modified: 4/11/2016 12:36:49 PM

**Electrophoresis File Run Summary (Chip Summary)**

Sample Name	Sample Comment	Status	Result Label	Result Color
Sample 1		✓		
Sample 2		✓		
Sample 3		✓		
Sample 4		✓		
Sample 5		✓		
Sample 6		✓		
Sample 7		✓		
Sample 8		✓		
Sample 9		✓		
Sample 10		✓		
Sample 11		✓		
Sample 12		✓		
Ladder		✓		

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: mRNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-11\2016-04-11\_002.xad

Created: 4/11/2016 12:09:44 PM  
Modified: 4/11/2016 12:36:49 PM

**Electrophoresis Assay Details**

**General Analysis Settings**

Number of Available Sample and Ladder Wells (Max.) : 13  
Minimum Visible Range [s] : 14  
Maximum Visible Range [s] : 85  
Start Analysis Time Range [s] : 15  
End Analysis Time Range [s] : 84  
Ladder Concentration [ng/μl] : 150  
Lower Marker Concentration [ng/μl] : 0  
Upper Marker Concentration [ng/μl] : 0  
Used Lower Marker for Quantitation  
Standard Curve Fit is Logarithmic  
Show Data Aligned to Lower Marker

**Integrator Settings**

Integration Start Time [s] : 15  
Integration End Time [s] : 84  
Slope Threshold : 0.2  
Height Threshold [FU] : 0.5  
Area Threshold : 0.1  
Width Threshold [s] : 0.2  
Baseline Plateau [s] : 0.5

**Filter Settings**

Filter Width [s] : 0.5  
Polynomial Order : 4

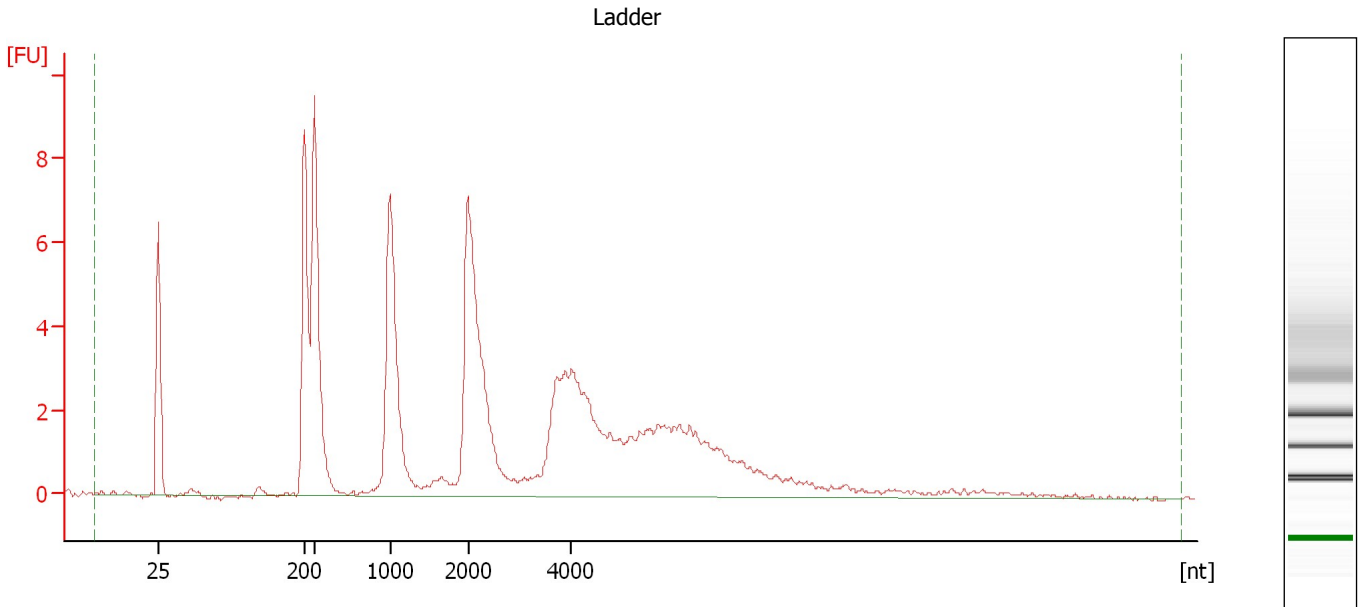
**Ladder**

Ladder Peak	Size
1	25
2	200
3	500
4	1000
5	2000
6	4000

Assay Class: mRNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-11\2016-04-11\_002.xad

Created: 4/11/2016 12:09:44 PM  
Modified: 4/11/2016 12:36:49 PM

**Electropherogram Summary**



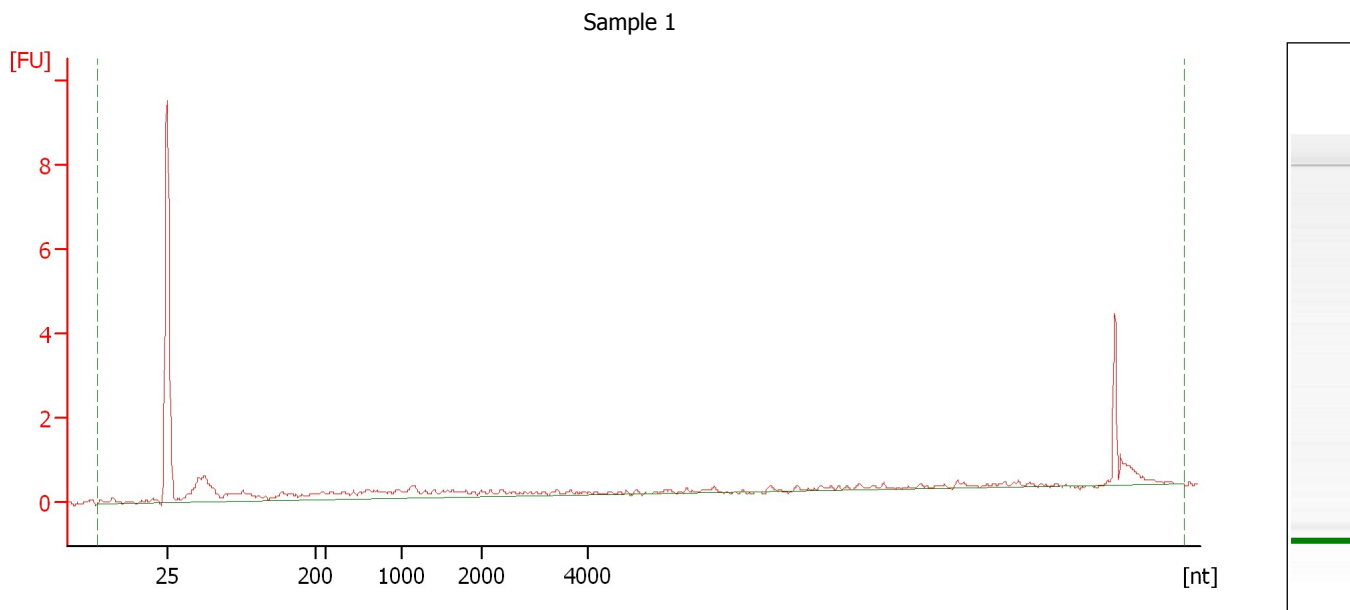
**Overall Results for Ladder**

RNA Area: 121.8                      RNA Concentration: 150 ng/μl

Assay Class: mRNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-11\2016-04-11\_002.xad

Created: 4/11/2016 12:09:44 PM  
Modified: 4/11/2016 12:36:49 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : Sample 1**

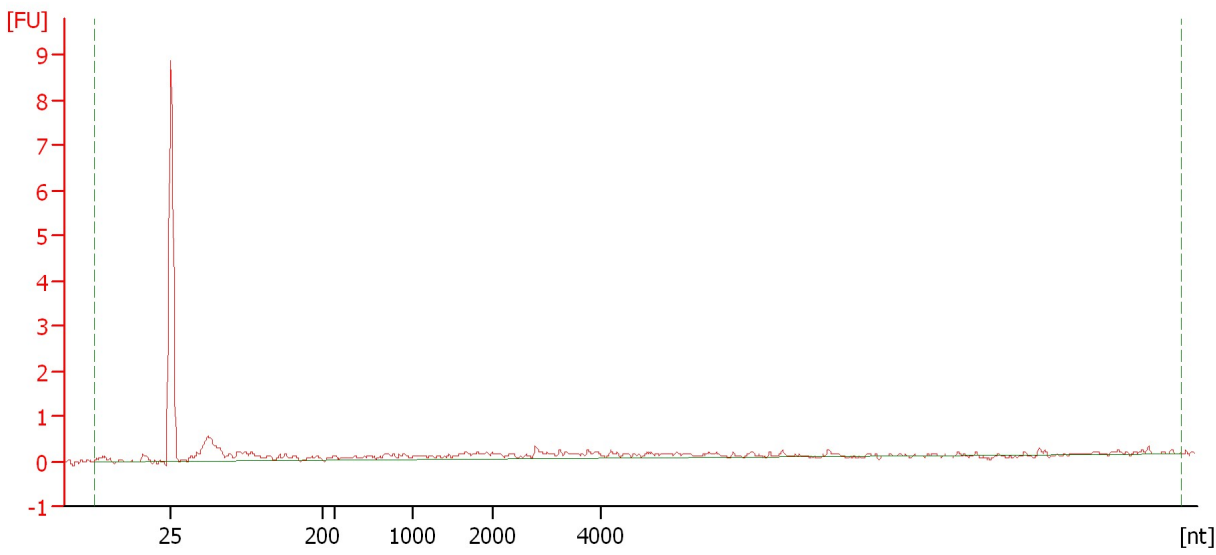
RNA Area:	19.5	rRNA Contamination:	0.0 %
RNA Concentration:	24 ng/ $\mu$ l		

Assay Class: mRNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-11\2016-04-11\_002.xad

Created: 4/11/2016 12:09:44 PM  
Modified: 4/11/2016 12:36:49 PM

**Electropherogram Summary Continued ...**

Sample 2



**Overall Results for sample 2 : Sample 2**

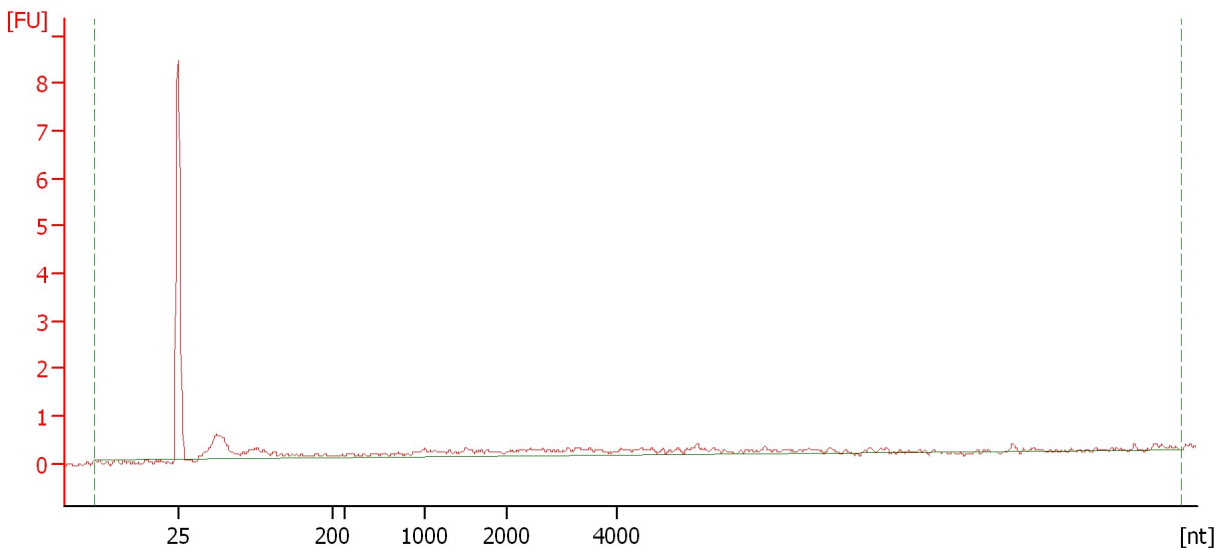
RNA Area:	9.8	rRNA Contamination:	0.0 %
RNA Concentration:	12 ng/μl		

Assay Class: mRNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-11\2016-04-11\_002.xad

Created: 4/11/2016 12:09:44 PM  
Modified: 4/11/2016 12:36:49 PM

**Electropherogram Summary Continued ...**

Sample 3



**Overall Results for sample 3 : Sample 3**

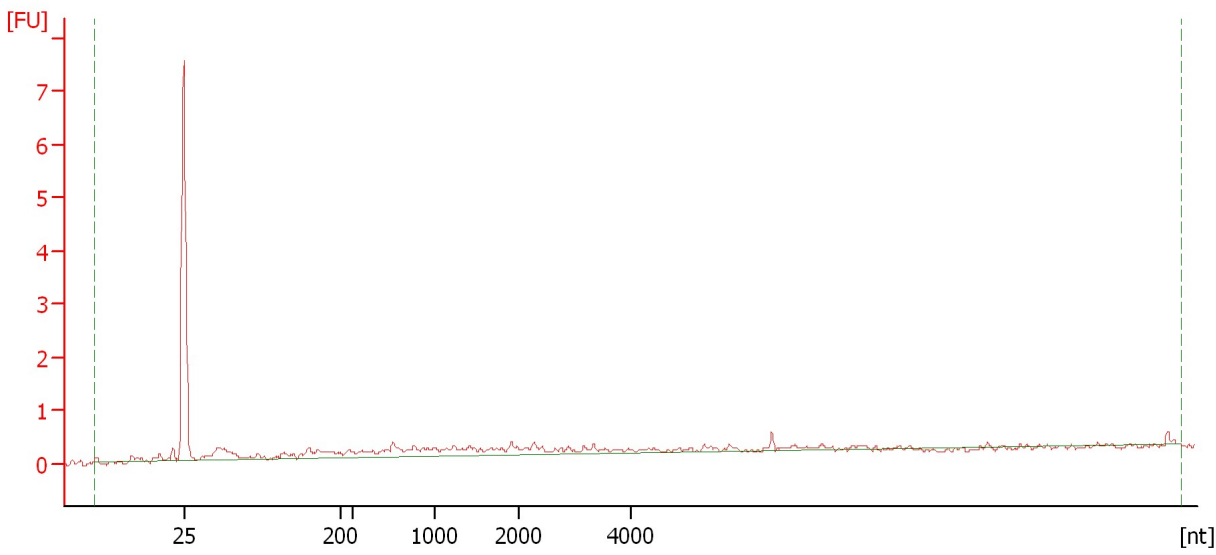
RNA Area:	10.1	rRNA Contamination:	0.0 %
RNA Concentration:	12 ng/μl		

Assay Class: mRNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-11\2016-04-11\_002.xad

Created: 4/11/2016 12:09:44 PM  
Modified: 4/11/2016 12:36:49 PM

**Electropherogram Summary Continued ...**

Sample 4



**Overall Results for sample 4 : Sample 4**

RNA Area:	8.5	rRNA Contamination:	0.0 %
RNA Concentration:	10 ng/μl		

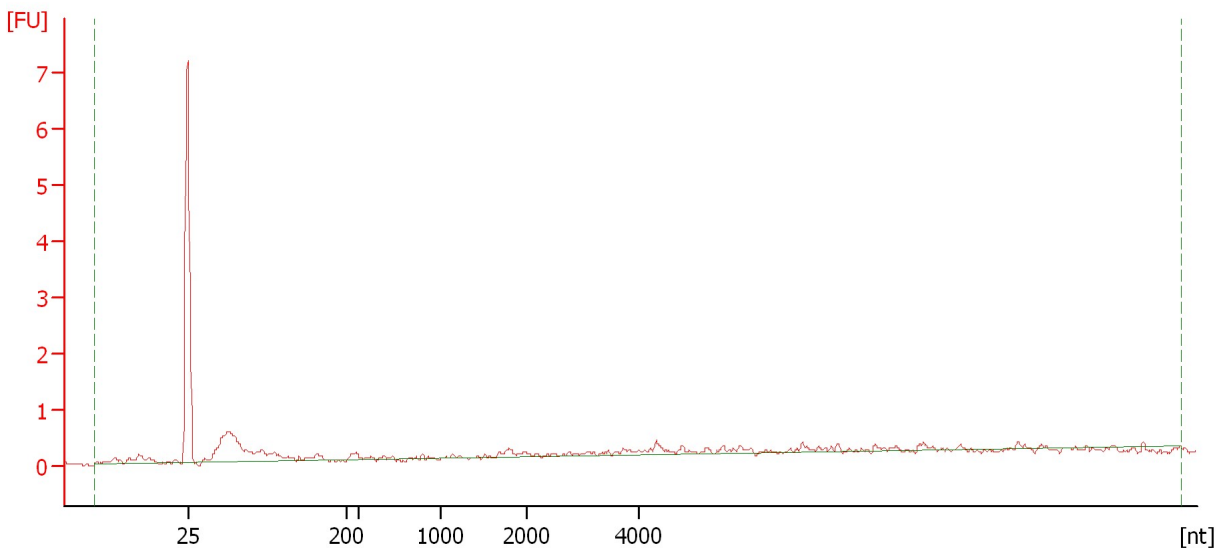


Assay Class: mRNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-11\2016-04-11\_002.xad

Created: 4/11/2016 12:09:44 PM  
Modified: 4/11/2016 12:36:49 PM

**Electropherogram Summary Continued ...**

Sample 5



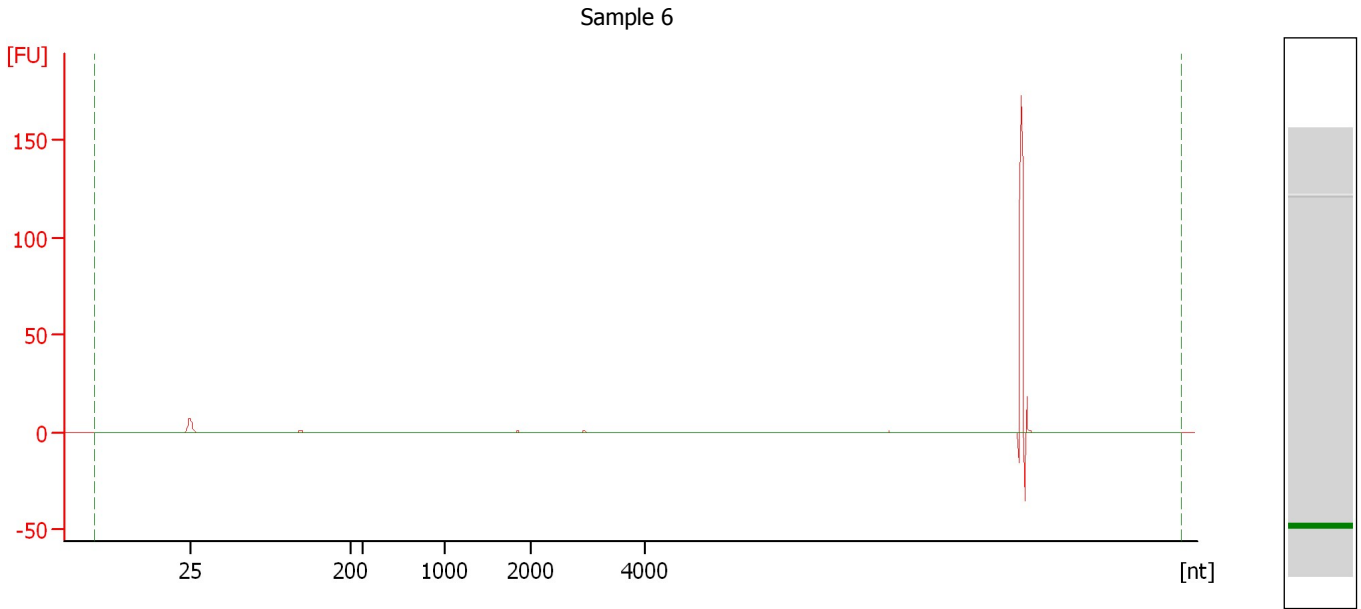
**Overall Results for sample 5 : Sample 5**

RNA Area:	10.0	rRNA Contamination:	0.0 %
RNA Concentration:	12 ng/μl		

Assay Class: mRNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-11\2016-04-11\_002.xad

Created: 4/11/2016 12:09:44 PM  
Modified: 4/11/2016 12:36:49 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : Sample 6**

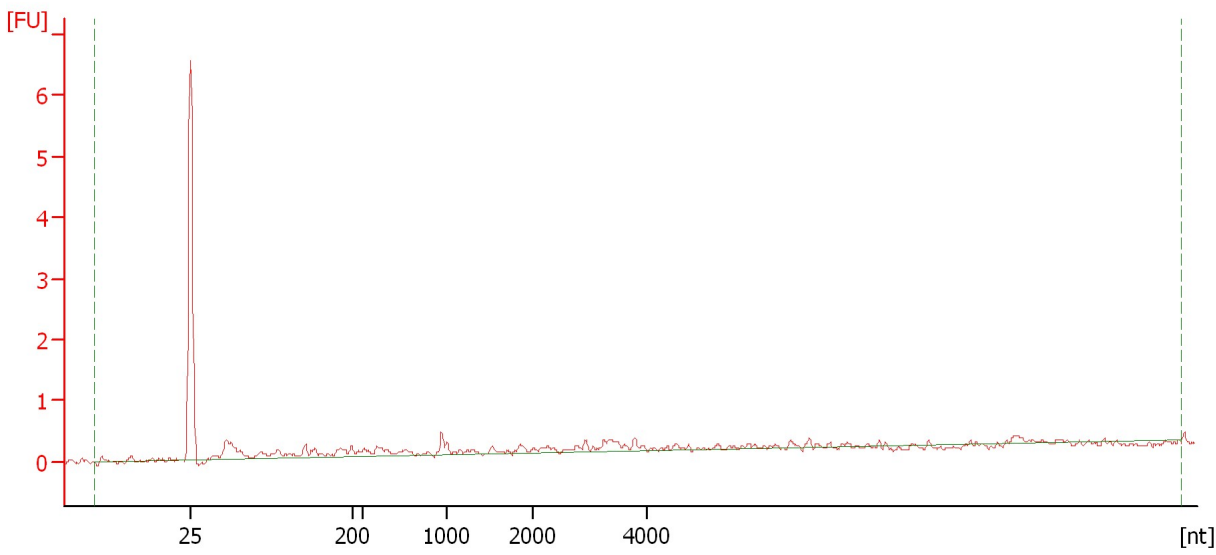
RNA Area:	66.9	rRNA Contamination:	0.0 %
RNA Concentration:	82 ng/μl		

Assay Class: mRNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-11\2016-04-11\_002.xad

Created: 4/11/2016 12:09:44 PM  
Modified: 4/11/2016 12:36:49 PM

**Electropherogram Summary Continued ...**

Sample 7



**Overall Results for sample 7 : Sample 7**

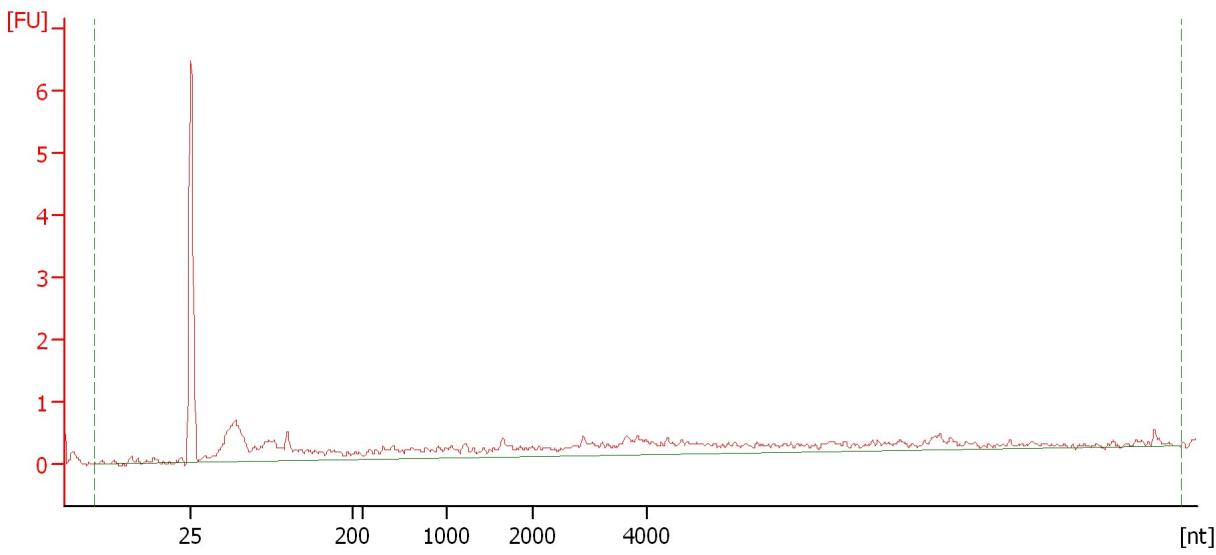
RNA Area:	7.7	rRNA Contamination:	0.0 %
RNA Concentration:	9 ng/μl		

Assay Class: mRNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-11\2016-04-11\_002.xad

Created: 4/11/2016 12:09:44 PM  
Modified: 4/11/2016 12:36:49 PM

**Electropherogram Summary Continued ...**

Sample 8



**Overall Results for sample 8 : Sample 8**

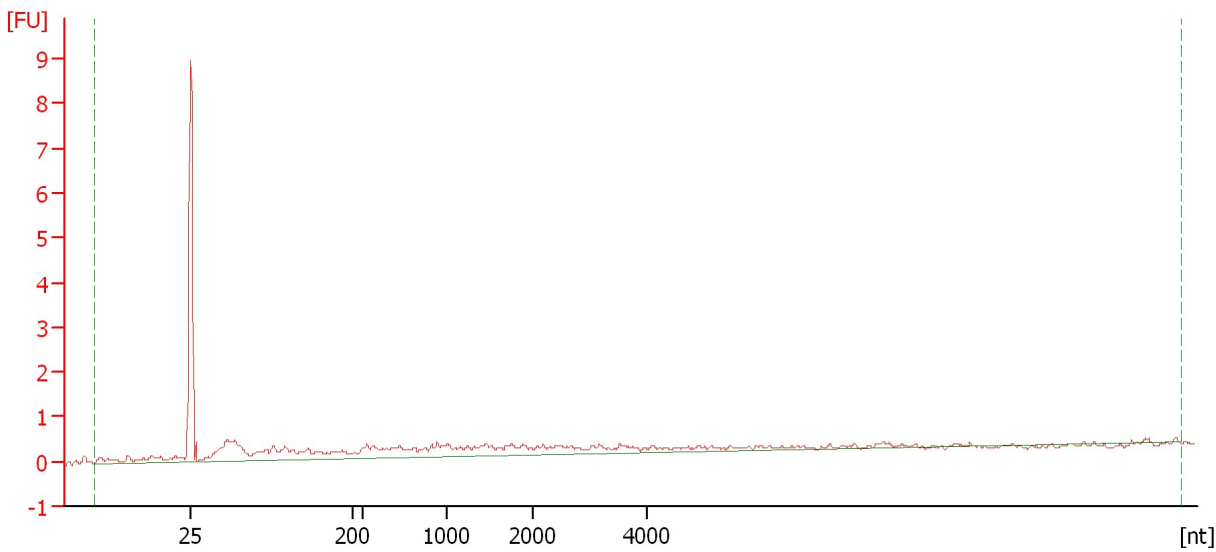
RNA Area:	20.0	rRNA Contamination:	0.0 %
RNA Concentration:	25 ng/μl		

Assay Class: mRNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-11\2016-04-11\_002.xad

Created: 4/11/2016 12:09:44 PM  
Modified: 4/11/2016 12:36:49 PM

**Electropherogram Summary Continued ...**

Sample 9



**Overall Results for sample 9 : Sample 9**

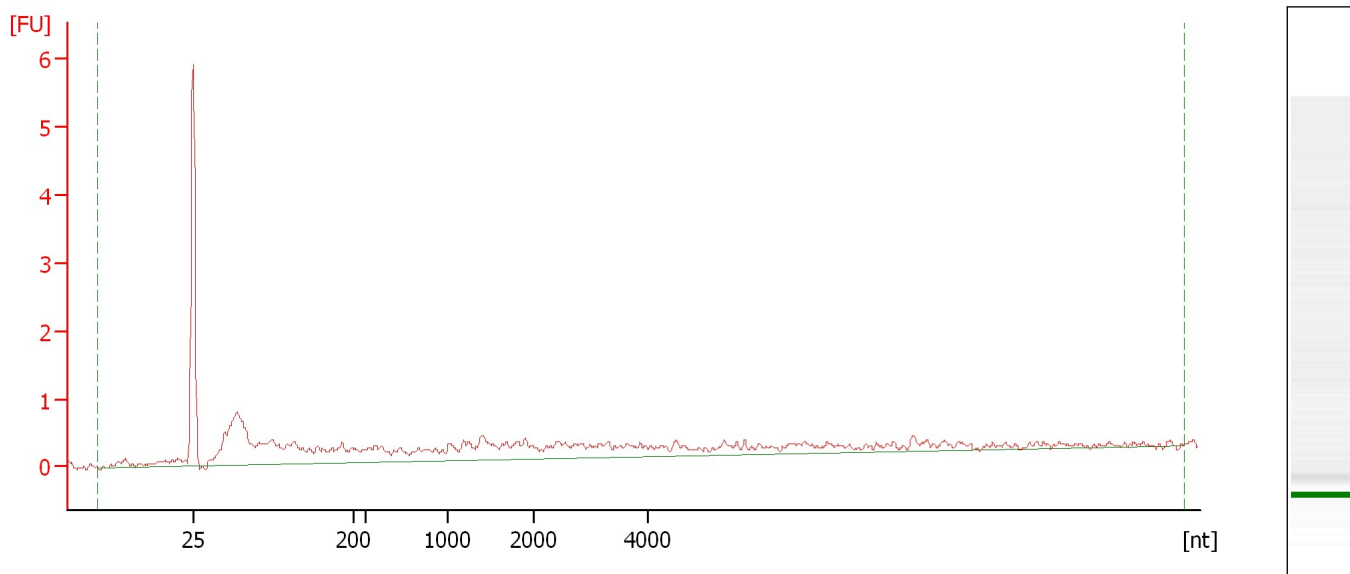
RNA Area:	21.1	rRNA Contamination:	0.0 %
RNA Concentration:	26 ng/μl		

Assay Class: mRNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-11\2016-04-11\_002.xad

Created: 4/11/2016 12:09:44 PM  
Modified: 4/11/2016 12:36:49 PM

**Electropherogram Summary Continued ...**

Sample 10



**Overall Results for sample 10 : Sample 10**

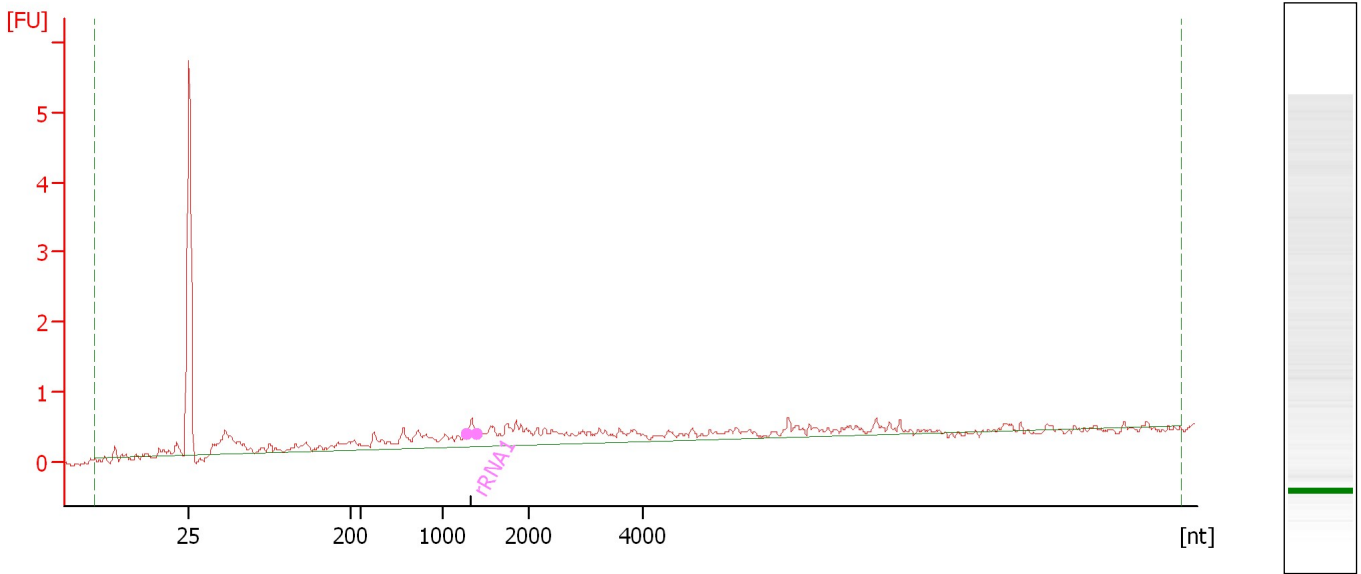
RNA Area:	23.7	rRNA Contamination:	0.0 %
RNA Concentration:	29 ng/μl		

Assay Class: mRNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-11\2016-04-11\_002.xad

Created: 4/11/2016 12:09:44 PM  
Modified: 4/11/2016 12:36:49 PM

**Electropherogram Summary Continued ...**

Sample 11



**Overall Results for sample 11 : Sample 11**

RNA Area: 14.8                      rRNA Contamination: 1.0 %  
RNA Concentration: 18 ng/μl

**Fragment table for sample 11 : Sample 11**

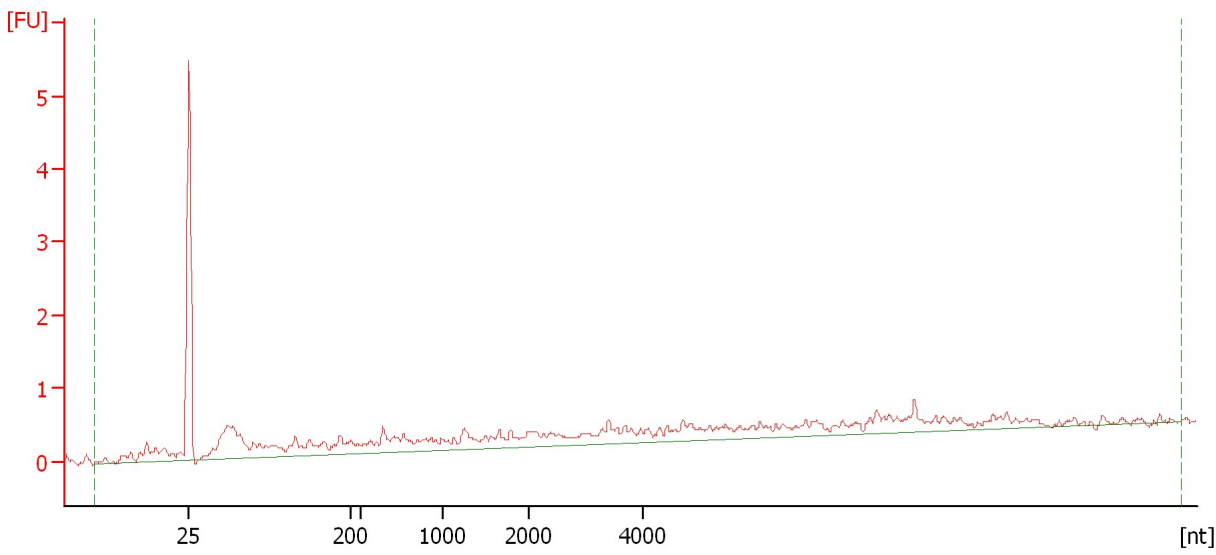
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA1	1,266	1,377	0.1	1.0

Assay Class: mRNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-11\2016-04-11\_002.xad

Created: 4/11/2016 12:09:44 PM  
Modified: 4/11/2016 12:36:49 PM

**Electropherogram Summary Continued ...**

Sample 12



**Overall Results for sample 12 : Sample 12**

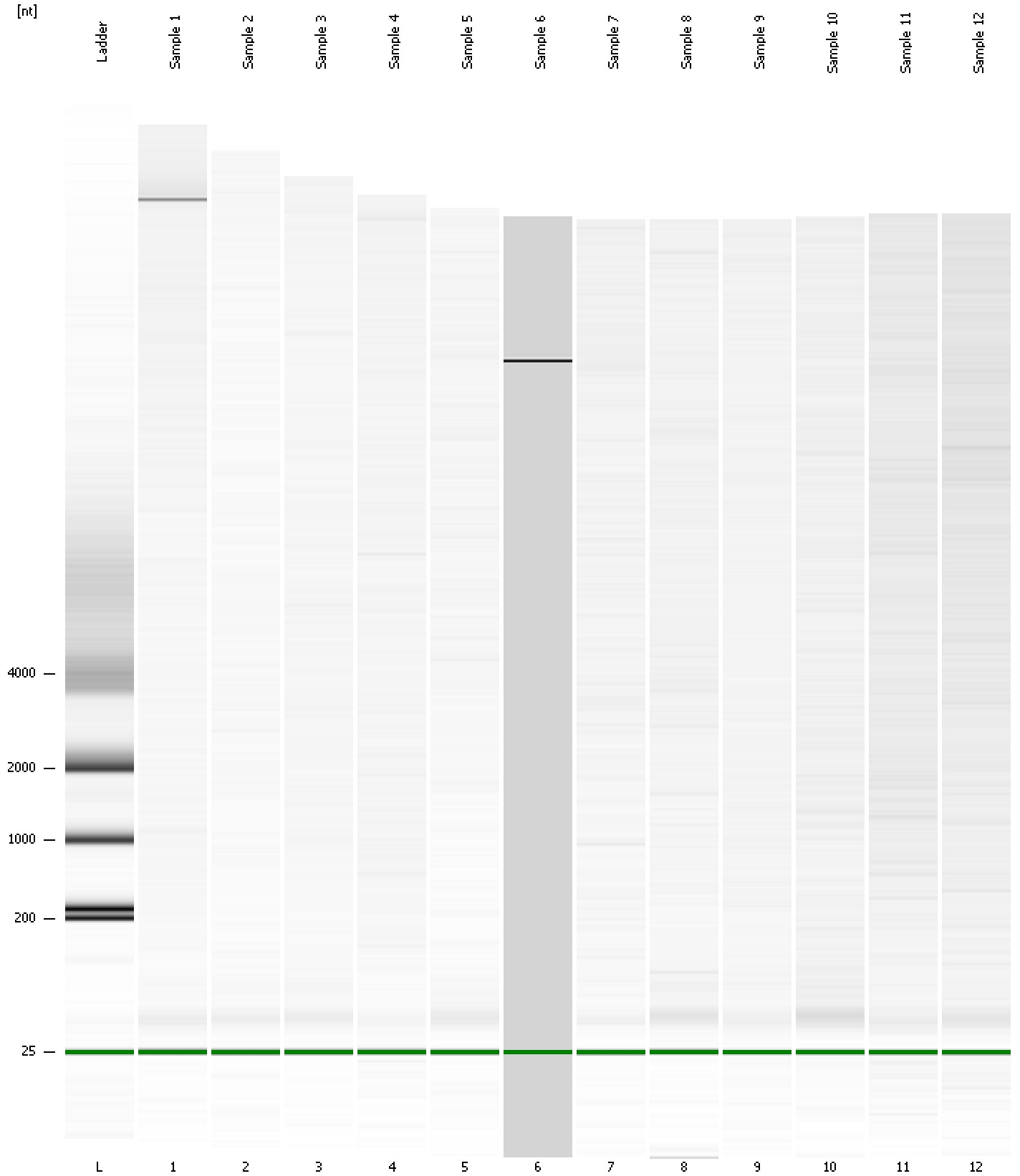
RNA Area:	21.2	rRNA Contamination:	0.0 %
RNA Concentration:	26 ng/μl		



Assay Class: mRNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-11\2016-04-11\_002.xad

Created: 4/11/2016 12:09:44 PM  
Modified: 4/11/2016 12:36:49 PM

**Gel Image**

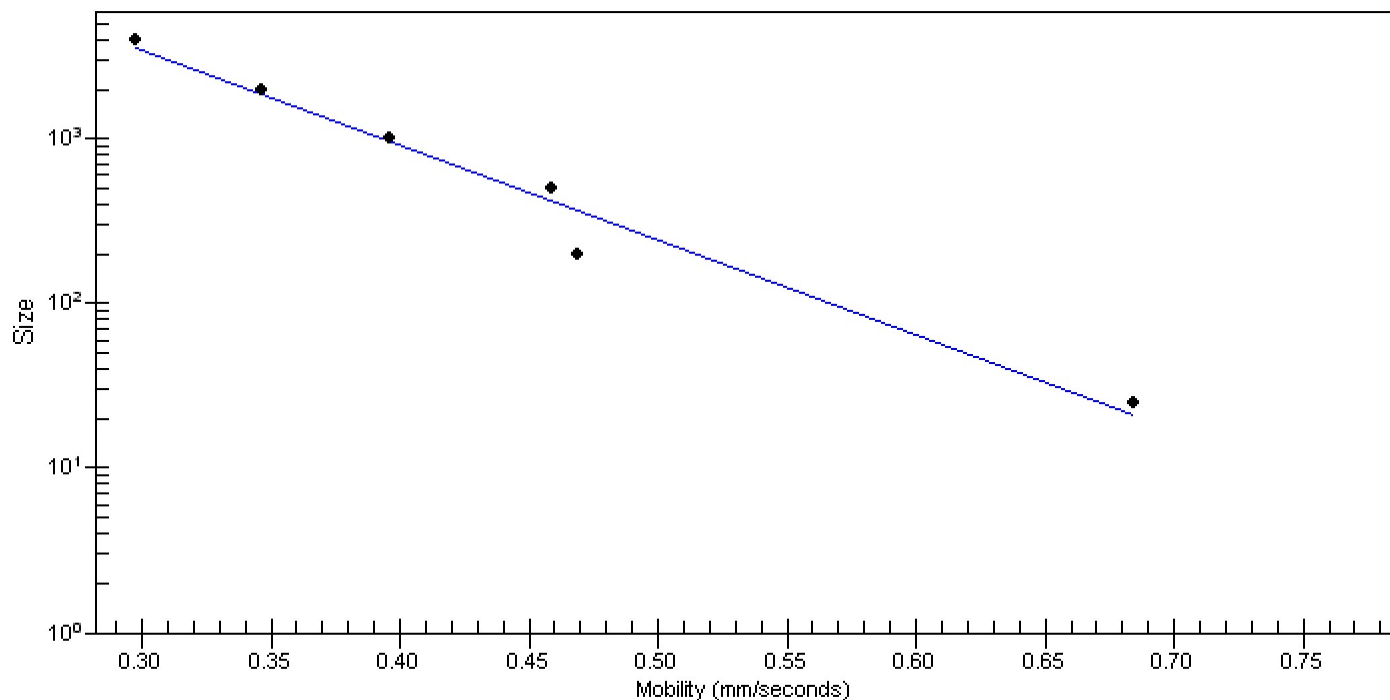


Assay Class: mRNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-11\2016-04-11\_002.xad

Created: 4/11/2016 12:09:44 PM  
Modified: 4/11/2016 12:36:49 PM

**Curves**

**Standard Curve**



Assay Class: mRNA Nano  
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-11\2016-04-11\_002.xad

Created: 4/11/2016 12:09:44 PM  
 Modified: 4/11/2016 12:36:49 PM

**Run Logbook**

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 13)		Instrument	Run		4/11/2016 12:36:47 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2016-04-11\2016-04-11_002.xad)		Instrument	Run		4/11/2016 12:09:49 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		4/11/2016 12:09:49 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		4/11/2016 12:09:49 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		4/11/2016 12:09:49 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		4/11/2016 12:09:49 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		4/11/2016 12:09:49 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		4/11/2016 12:09:49 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1