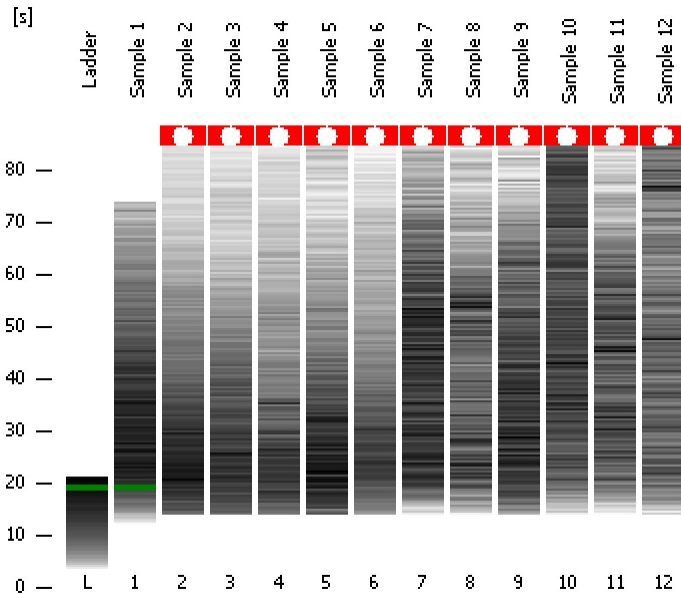


Assay Class: mRNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-08\2016-04-08\_002.xad

Created: 4/8/2016 3:36:32 PM  
Modified: 4/8/2016 4:03:36 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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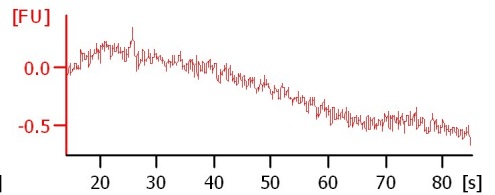
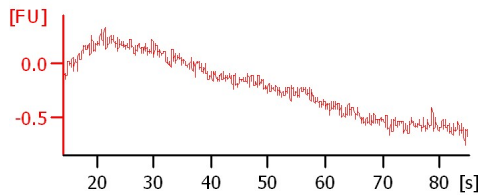
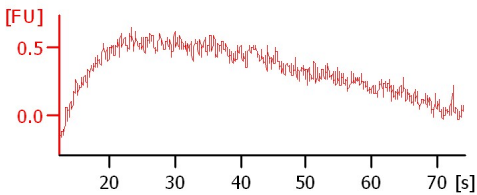
#### Chip Information:

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

Sample 1

Sample 2

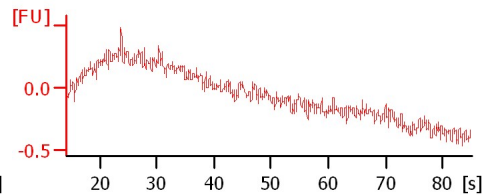
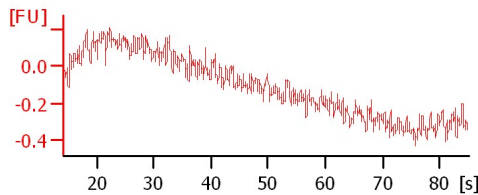
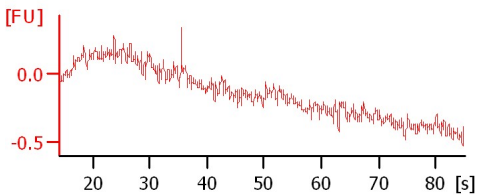
Sample 3



Sample 4

Sample 5

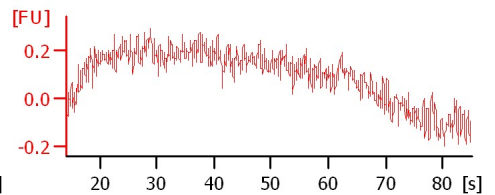
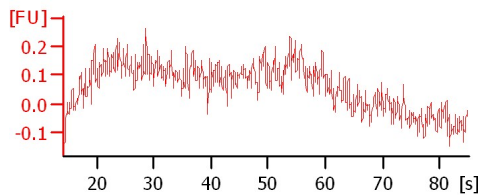
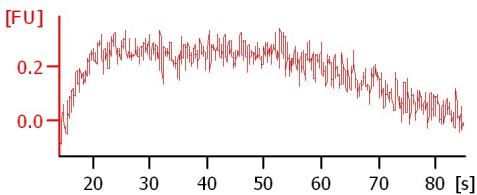
Sample 6



Sample 7

Sample 8

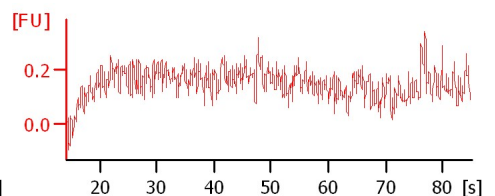
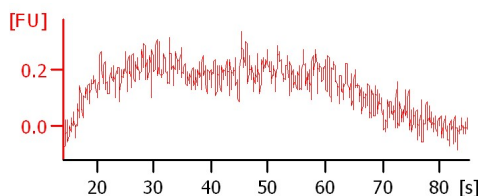
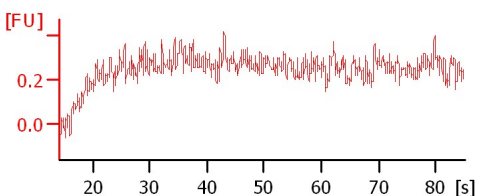
Sample 9



Sample 10

Sample 11

Sample 12



Assay Class: mRNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-08\2016-04-08\_002.xad

Created: 4/8/2016 3:36:32 PM  
Modified: 4/8/2016 4:03:36 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\2016-04-08\2016-04-08\_002.xad

Created: 4/8/2016 3:36:32 PM  
Modified: 4/8/2016 4:03:36 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

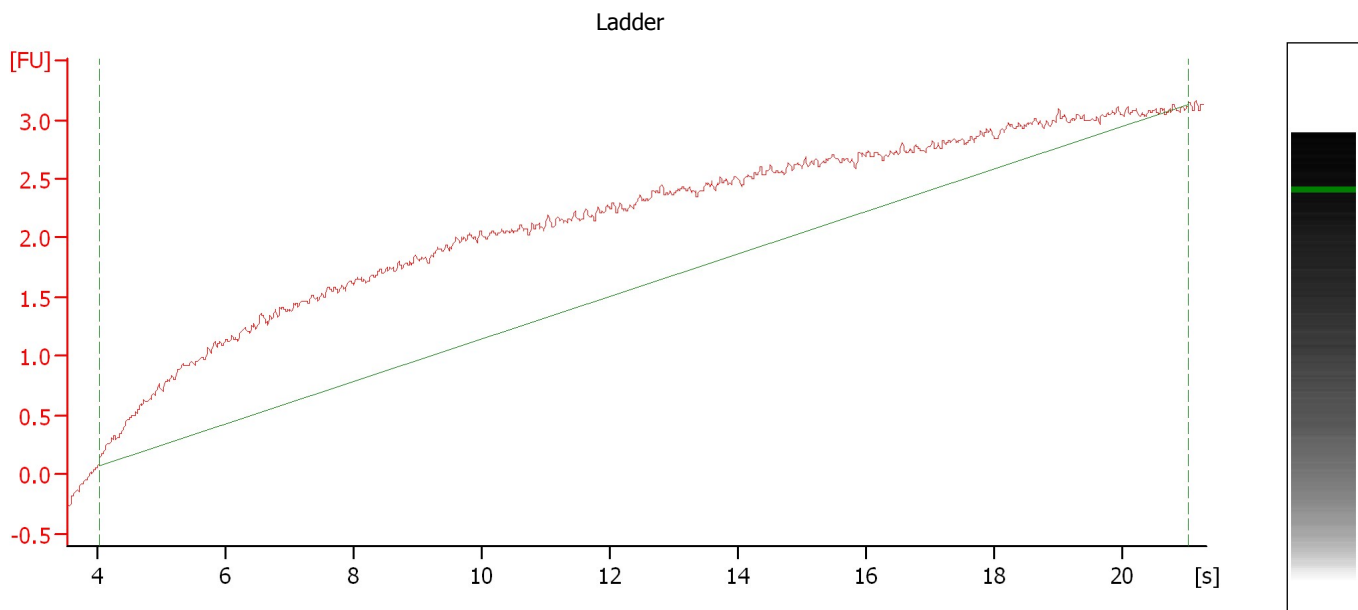
### Ladder

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\2016-04-08\2016-04-08\_002.xad

Created: 4/8/2016 3:36:32 PM  
Modified: 4/8/2016 4:03:36 PM

### Electropherogram Summary



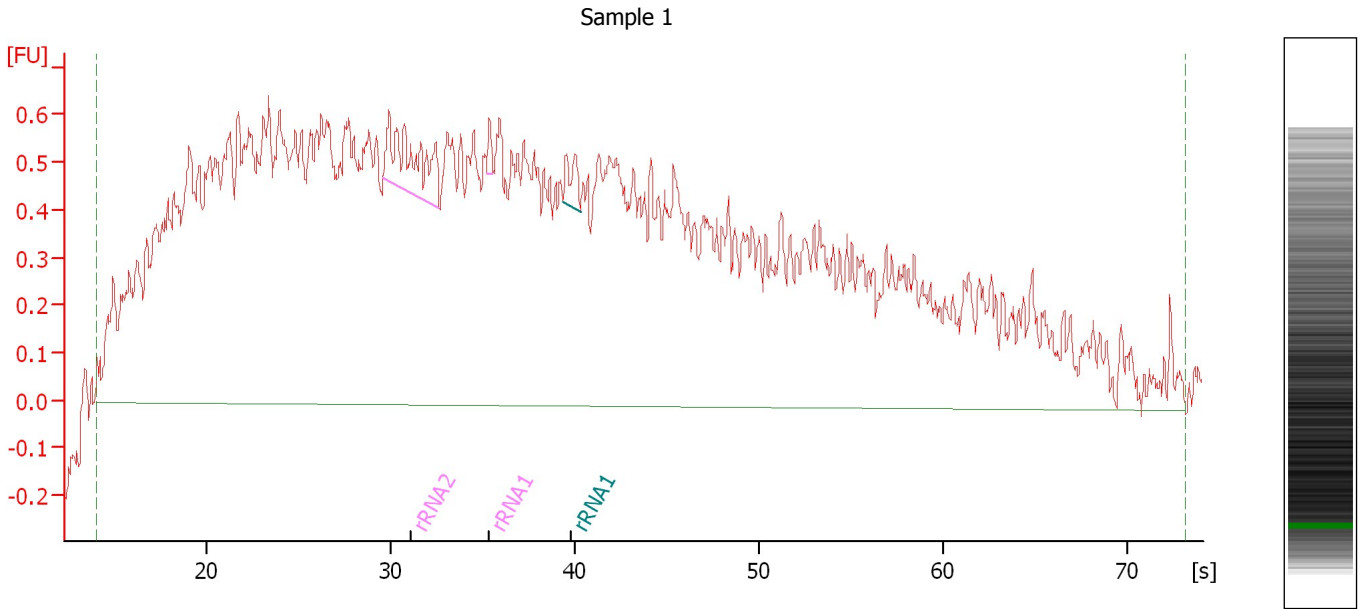
### Overall Results for Ladder

RNA Area: 98.0                      RNA Concentration: 150 ng/ $\mu$ l

Assay Class: mRNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-08\2016-04-08\_002.xad

Created: 4/8/2016 3:36:32 PM  
Modified: 4/8/2016 4:03:36 PM

**Electropherogram Summary Continued ...**



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

RNA Area: 55.5                      rRNA Contamination: 1.9 %  
RNA Concentration: 85 ng/μl

**Fragment table for sample 1 : Sample 1**

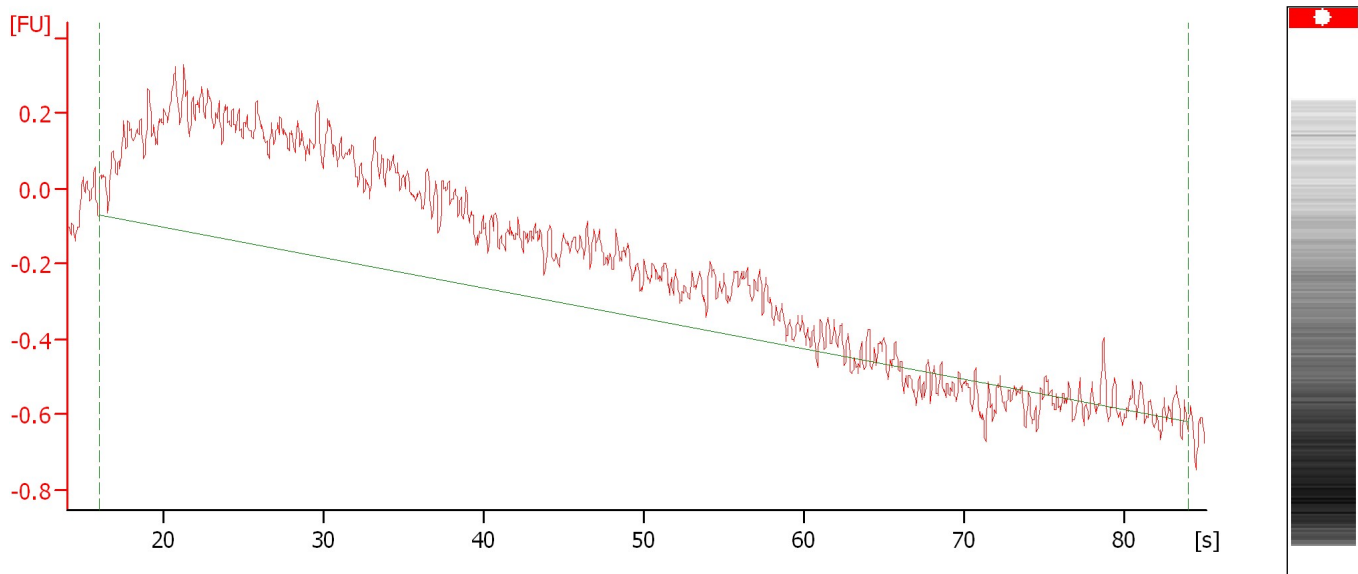
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA2	104,355	139,149	0.8	1.4
rRNA1	168,475	172,452	0.1	0.1
rRNA1	215,696	226,631	0.2	0.3

Assay Class: mRNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-08\2016-04-08\_002.xad

Created: 4/8/2016 3:36:32 PM  
Modified: 4/8/2016 4:03:36 PM

**Electropherogram Summary Continued ...**

Sample 2



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

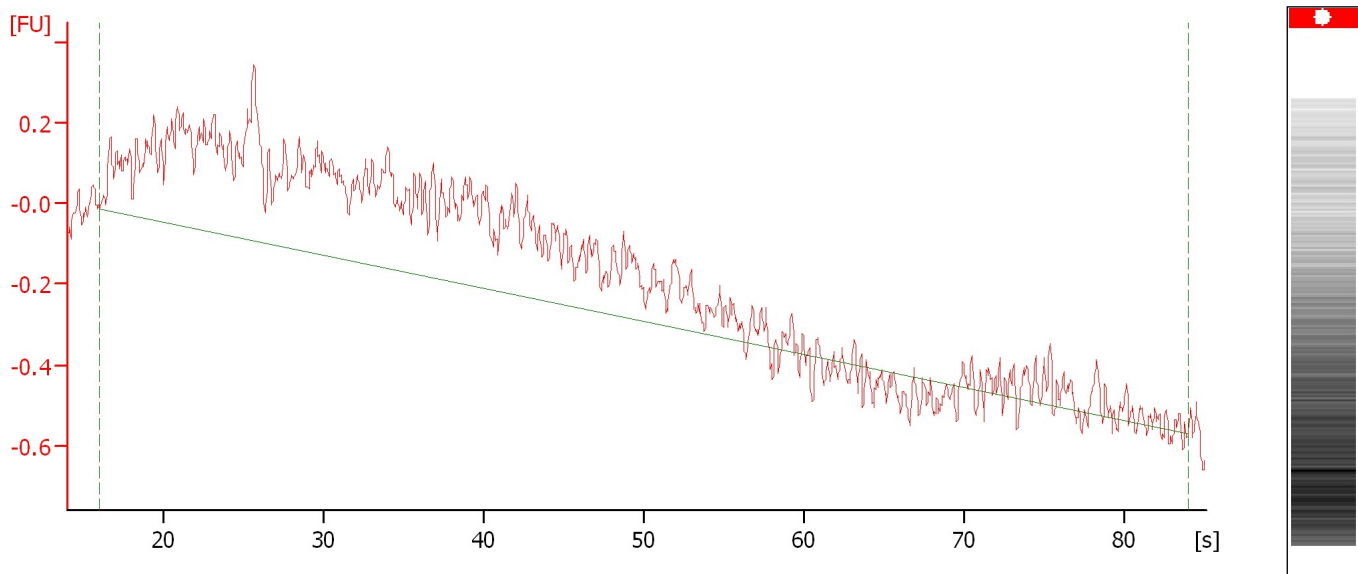
RNA Concentration: 46 ng/ $\mu$ l      rRNA Contamination: 0.0 %

Assay Class: mRNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-08\2016-04-08\_002.xad

Created: 4/8/2016 3:36:32 PM  
Modified: 4/8/2016 4:03:36 PM

**Electropherogram Summary Continued ...**

Sample 3



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

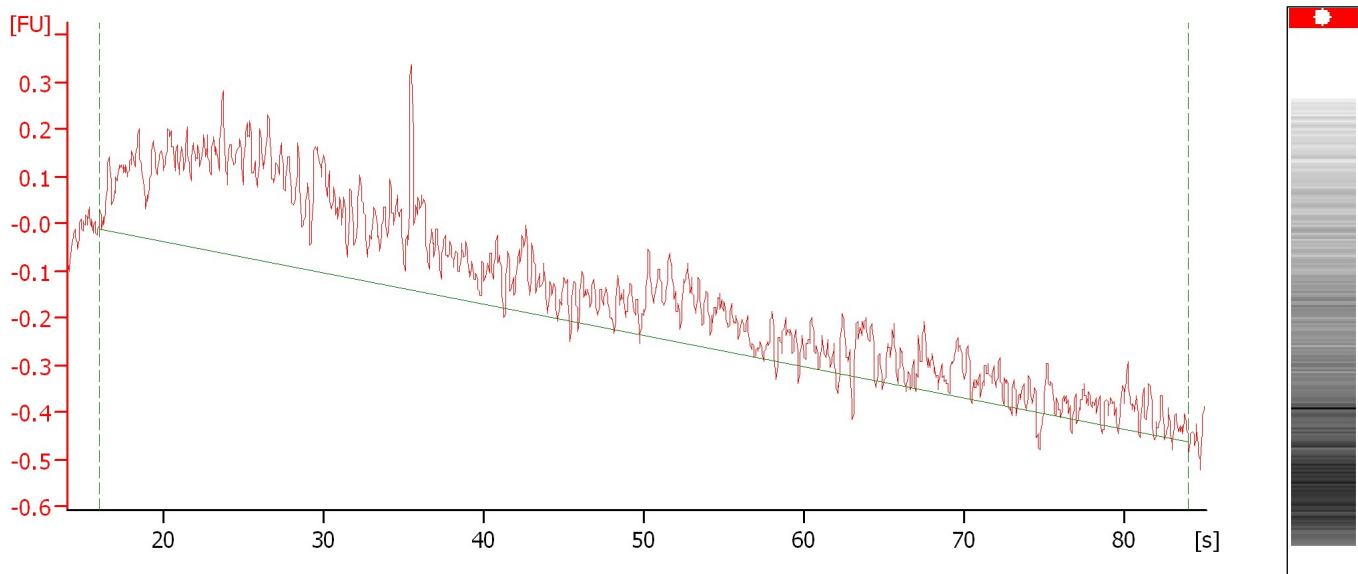
RNA Concentration: 35 ng/ $\mu$ l      rRNA Contamination: 0.0 %

Assay Class: mRNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-08\2016-04-08\_002.xad

Created: 4/8/2016 3:36:32 PM  
Modified: 4/8/2016 4:03:36 PM

**Electropherogram Summary Continued ...**

Sample 4



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

RNA Concentration: 30 ng/ $\mu$ l rRNA Contamination: 0.0 %

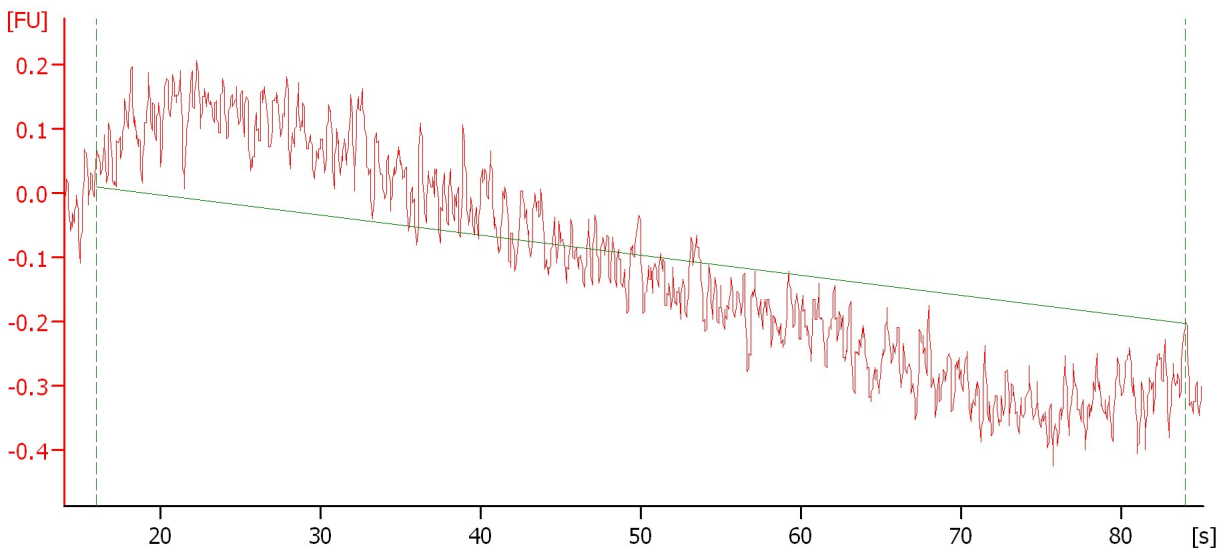


Assay Class: mRNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-08\2016-04-08\_002.xad

Created: 4/8/2016 3:36:32 PM  
Modified: 4/8/2016 4:03:36 PM

**Electropherogram Summary Continued ...**

Sample 5



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

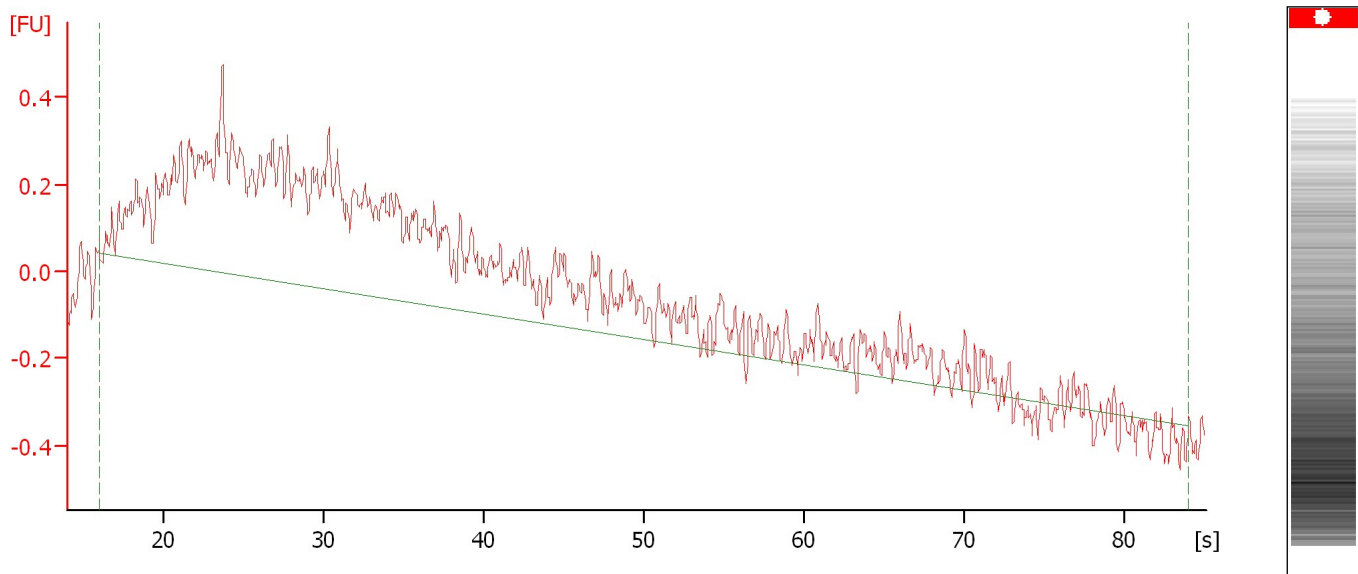
RNA Concentration: 16 ng/μl      rRNA Contamination: 0.0 %

Assay Class: mRNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-08\2016-04-08\_002.xad

Created: 4/8/2016 3:36:32 PM  
Modified: 4/8/2016 4:03:36 PM

**Electropherogram Summary Continued ...**

Sample 6



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

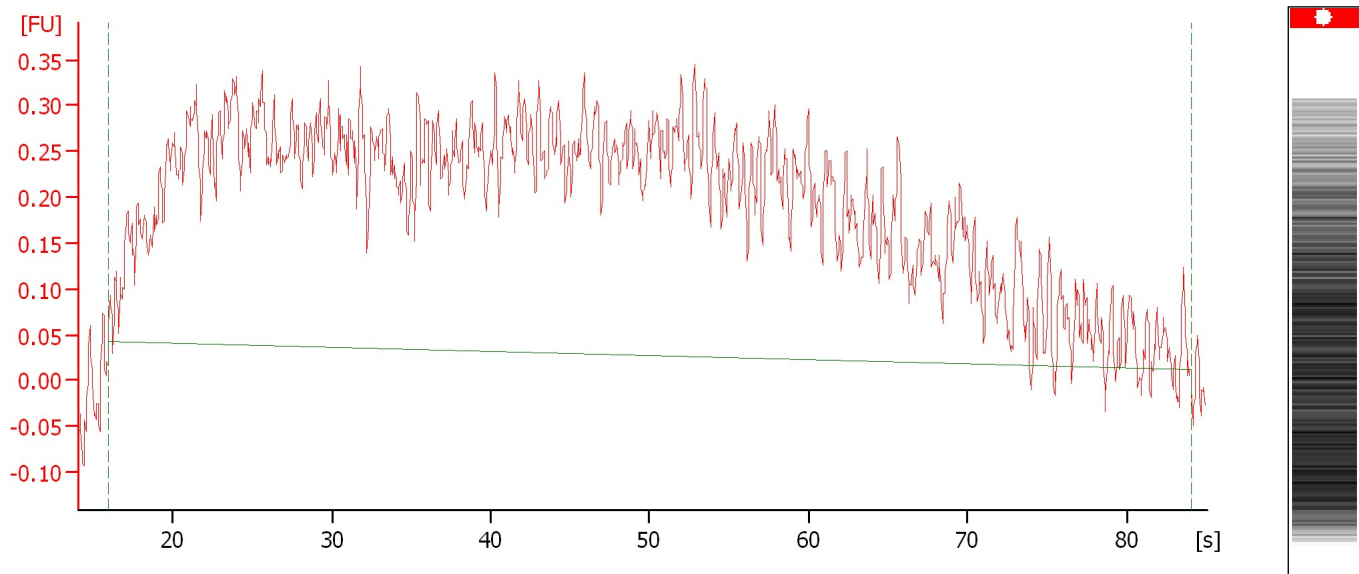
RNA Concentration: 34 ng/μl      rRNA Contamination: 0.0 %

Assay Class: mRNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-08\2016-04-08\_002.xad

Created: 4/8/2016 3:36:32 PM  
Modified: 4/8/2016 4:03:36 PM

**Electropherogram Summary Continued ...**

Sample 7



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

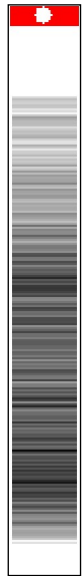
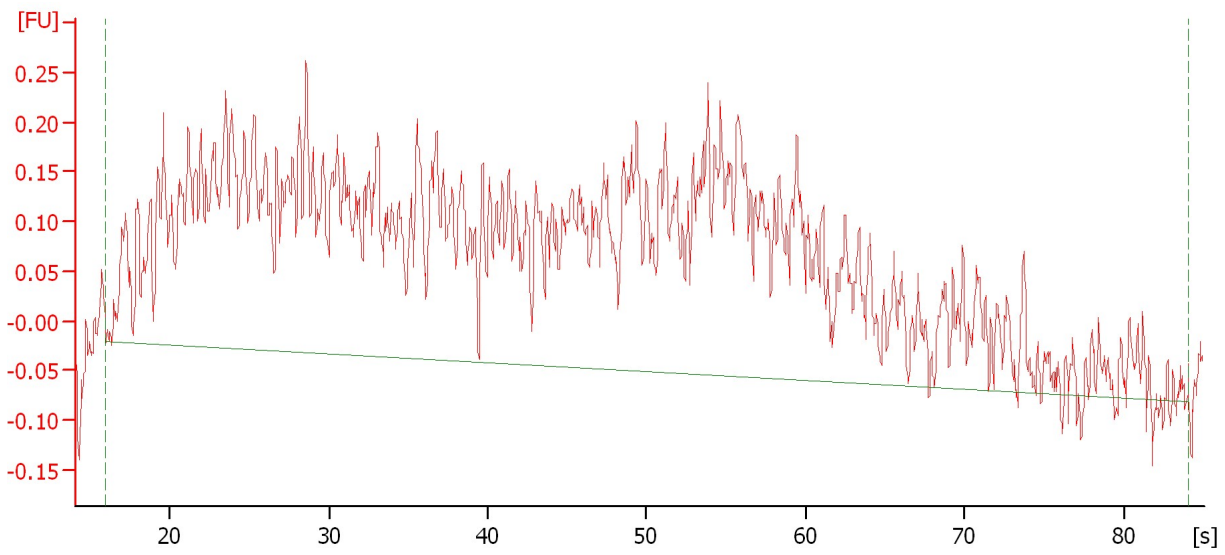
RNA Concentration: 46 ng/ $\mu$ l      rRNA Contamination: 0.0 %

Assay Class: mRNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-08\2016-04-08\_002.xad

Created: 4/8/2016 3:36:32 PM  
Modified: 4/8/2016 4:03:36 PM

**Electropherogram Summary Continued ...**

Sample 8



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

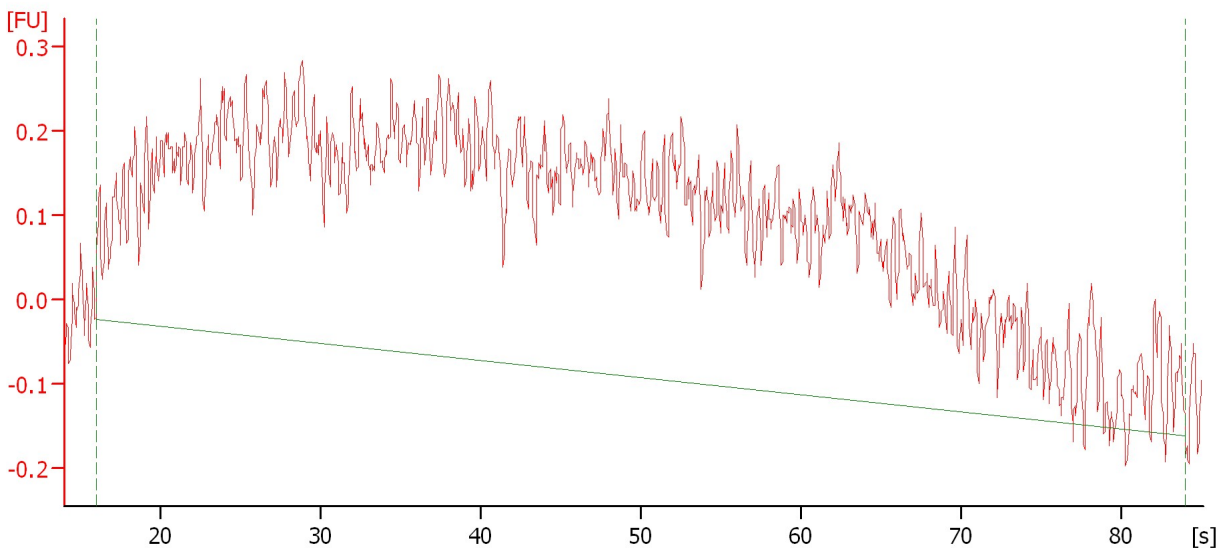
RNA Concentration: 32 ng/μl      rRNA Contamination: 0.0 %

Assay Class: mRNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-08\2016-04-08\_002.xad

Created: 4/8/2016 3:36:32 PM  
Modified: 4/8/2016 4:03:36 PM

**Electropherogram Summary Continued ...**

Sample 9



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

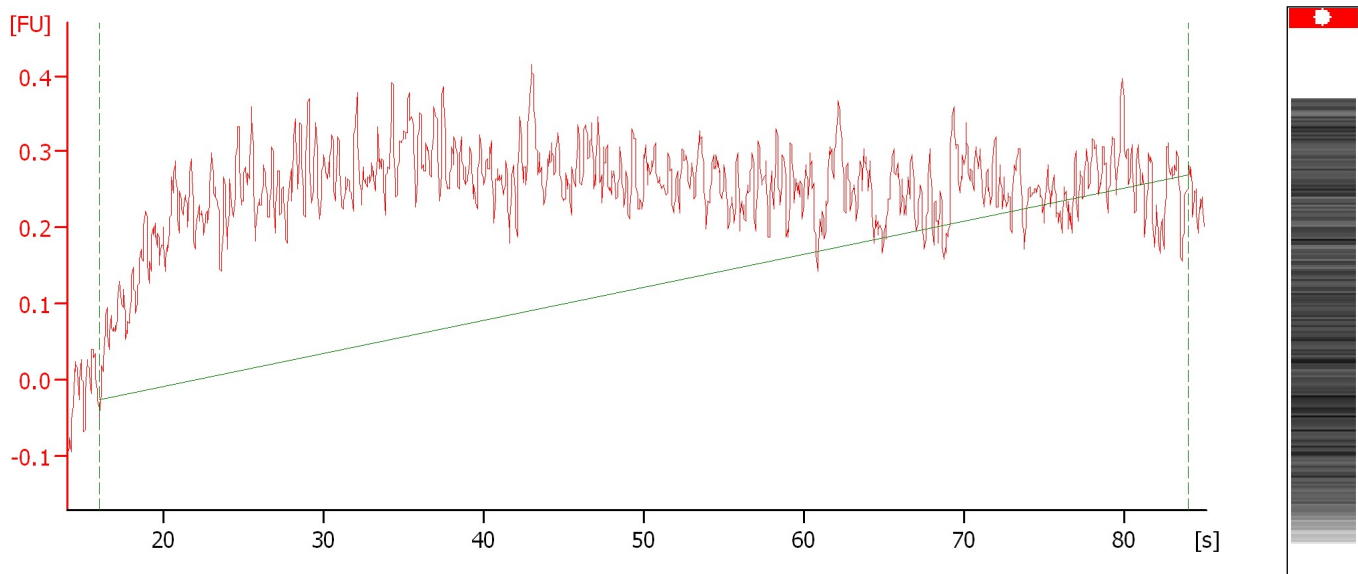
RNA Concentration: 51 ng/ $\mu$ l      rRNA Contamination: 0.0 %

Assay Class: mRNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-08\2016-04-08\_002.xad

Created: 4/8/2016 3:36:32 PM  
Modified: 4/8/2016 4:03:36 PM

**Electropherogram Summary Continued ...**

Sample 10



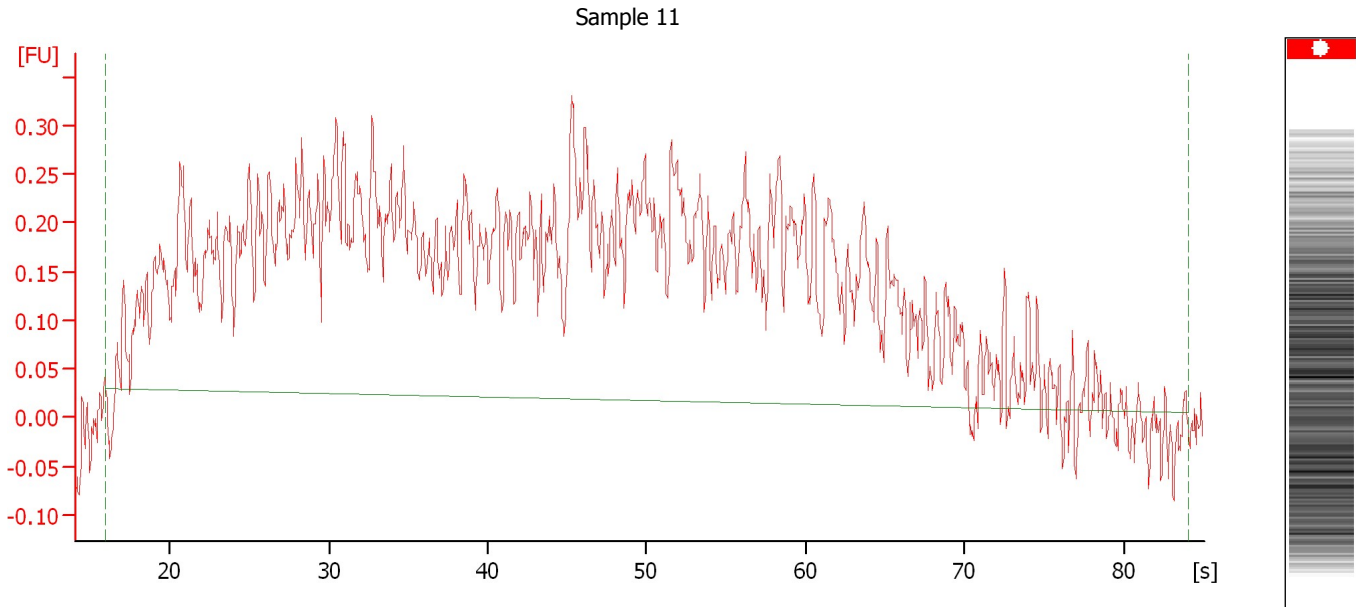
**Overall Results for sample 10 : Sample 10**

RNA Concentration: 41 ng/ $\mu$ l      rRNA Contamination: 0.0 %

Assay Class: mRNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-08\2016-04-08\_002.xad

Created: 4/8/2016 3:36:32 PM  
Modified: 4/8/2016 4:03:36 PM

**Electropherogram Summary Continued ...**



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

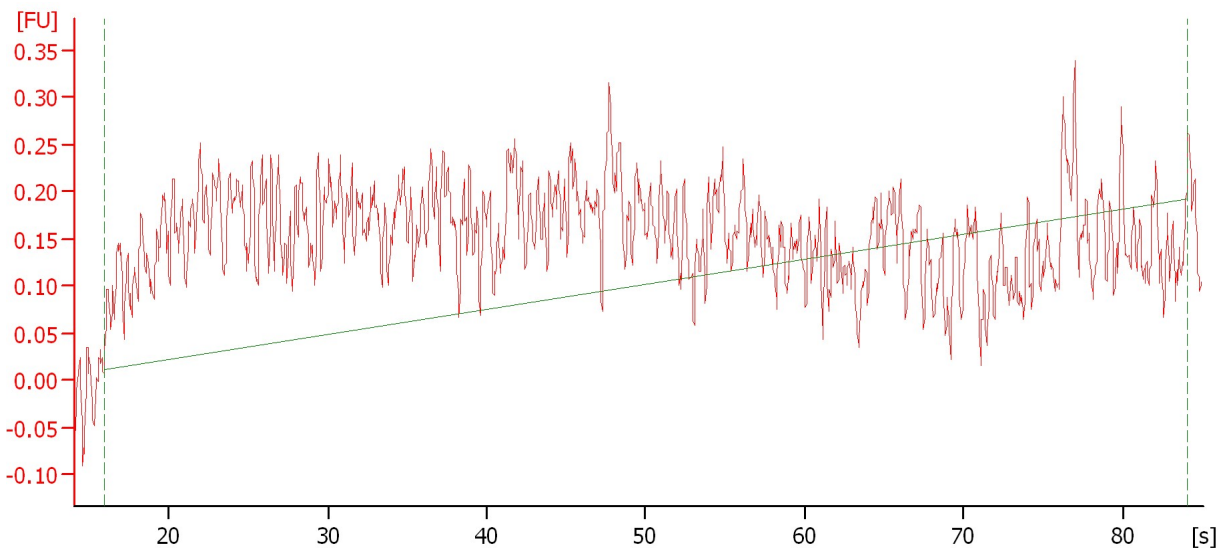
RNA Concentration: 34 ng/ $\mu$ l      rRNA Contamination: 0.0 %

Assay Class: mRNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-08\2016-04-08\_002.xad

Created: 4/8/2016 3:36:32 PM  
Modified: 4/8/2016 4:03:36 PM

**Electropherogram Summary Continued ...**

Sample 12



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

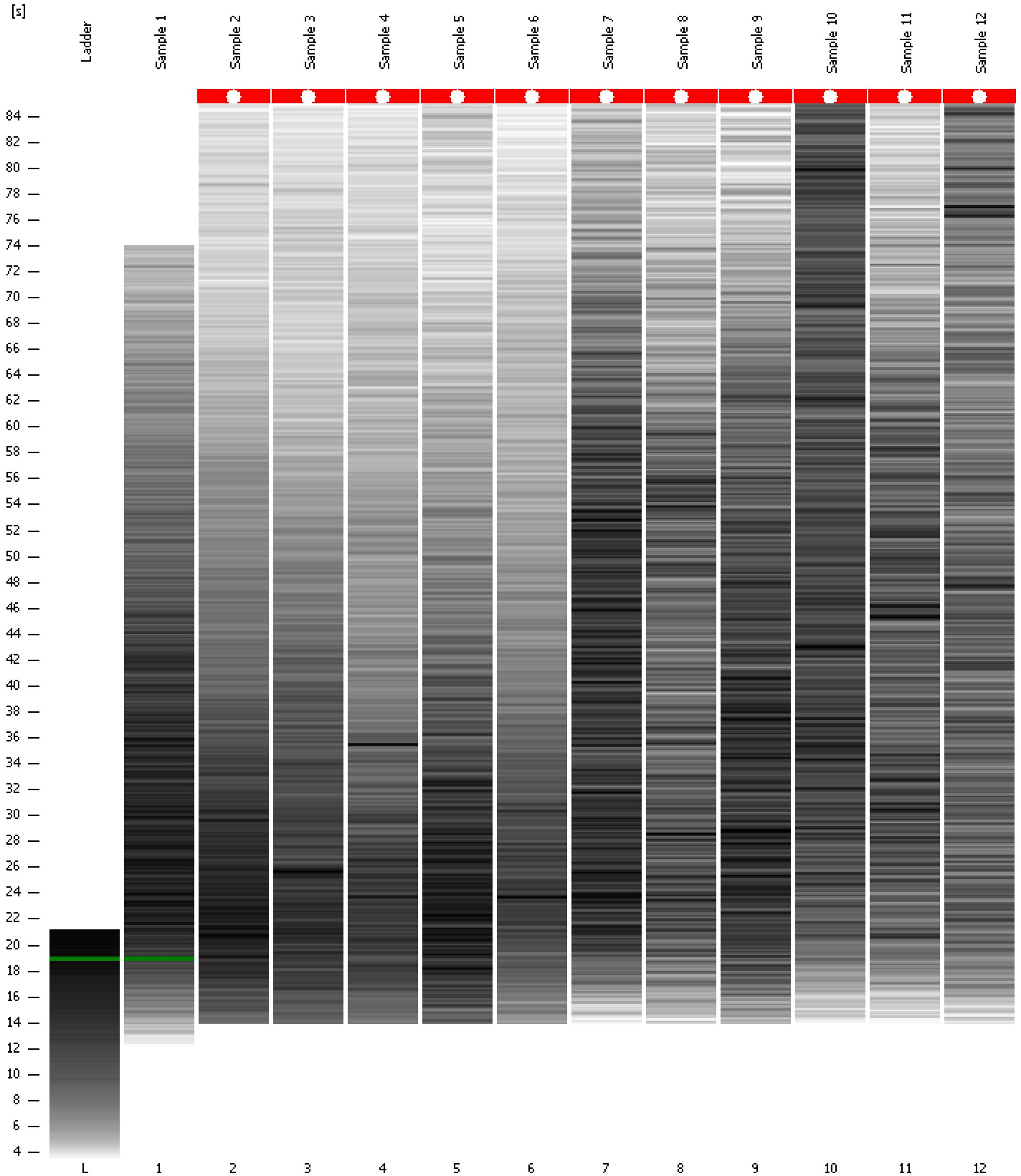
RNA Concentration: 22 ng/ $\mu$ l      rRNA Contamination: 0.0 %



Assay Class: mRNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-08\2016-04-08\_002.xad

Created: 4/8/2016 3:36:32 PM  
Modified: 4/8/2016 4:03:36 PM

**Gel Image**

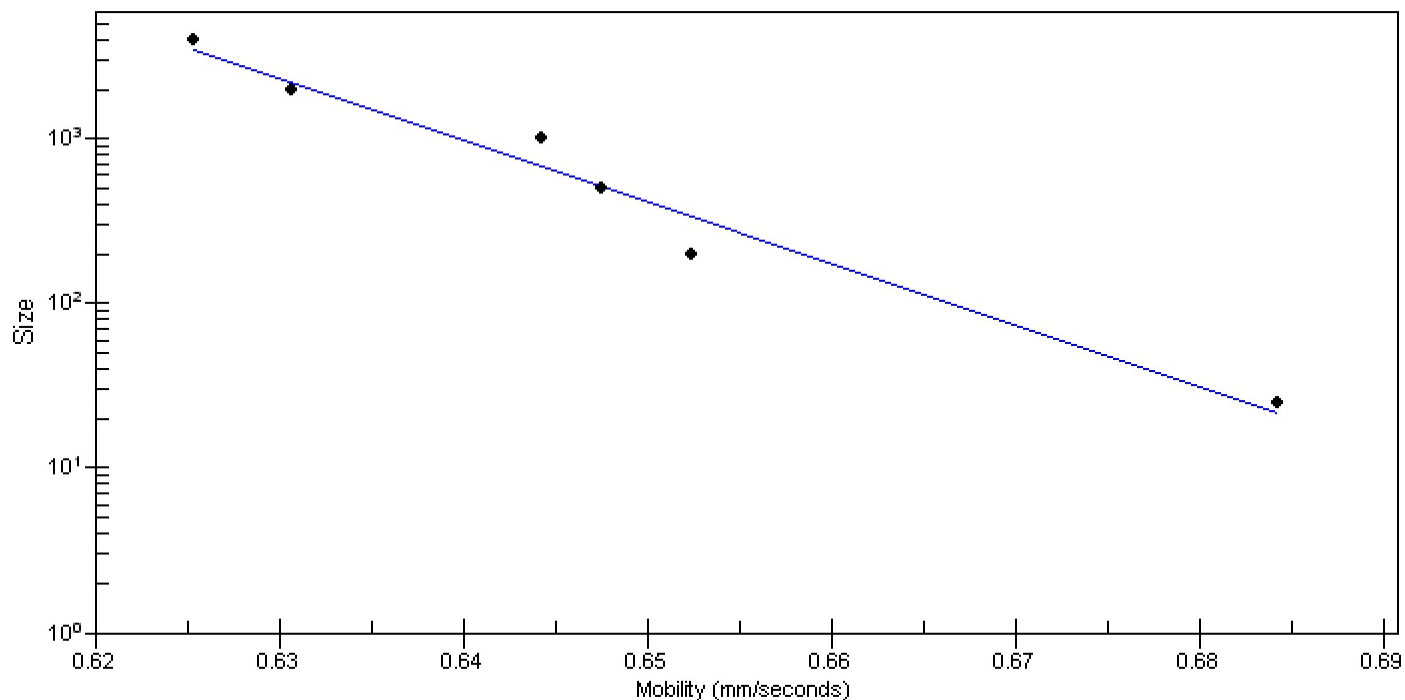


Assay Class: mRNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-08\2016-04-08\_002.xad

Created: 4/8/2016 3:36:32 PM  
Modified: 4/8/2016 4:03:36 PM

**Curves**

**Standard Curve**



Assay Class: mRNA Nano  
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-08\2016-04-08\_002.xad

Created: 4/8/2016 3:36:32 PM  
 Modified: 4/8/2016 4:03:36 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		4/8/2016 4:03:35 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\2016-04-08\2016-04-08_002.xad)		Instrument	Run		4/8/2016 3:36:38 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		4/8/2016 3:36:38 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		4/8/2016 3:36:38 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		4/8/2016 3:36:38 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		4/8/2016 3:36:38 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		4/8/2016 3:36:38 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		4/8/2016 3:36:38 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1