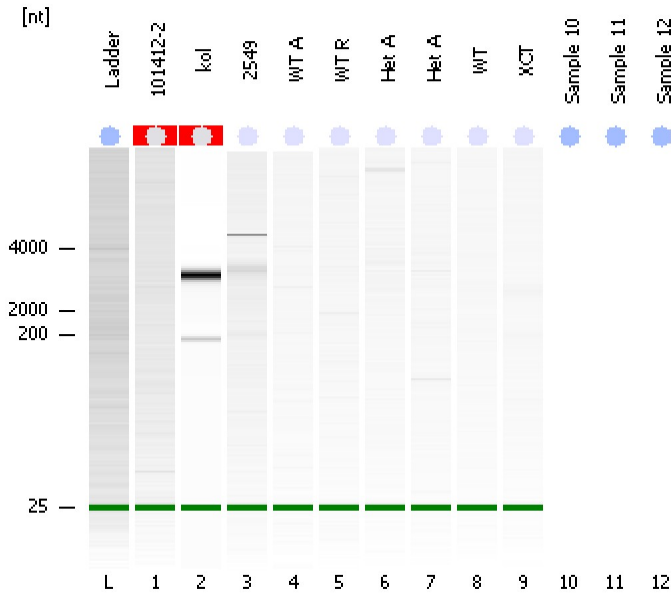


Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-20\2014-10-20\_001.xad

Created: 10/20/2014 9:48:49 AM  
Modified: 10/20/2014 10:08:36 AM

Electrophoresis File Run Summary



Instrument Information:

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

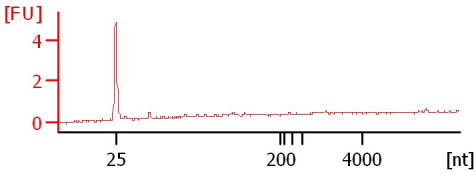
Assay Information:

Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\RNA\Eukaryote Total RNA Nano Series II.xsy  
Assay Class: Eukaryote Total RNA Nano  
Version: 2.6  
Assay Comments: Total RNA Analysis ng sensitivity (Eukaryote)  
© Copyright 2003 - 2009 Agilent Technologies, Inc.

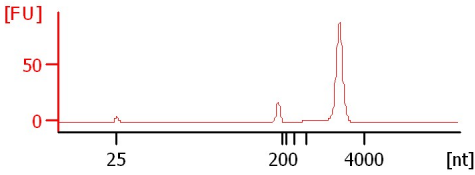
Chip Information:

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

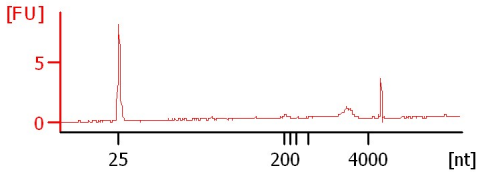
**101412-2**  
Farnaz Shoja-Taheri  
RIN N/A



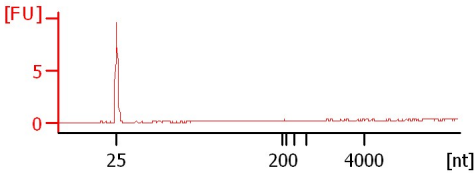
**kol**  
Amir Kol  
RIN N/A



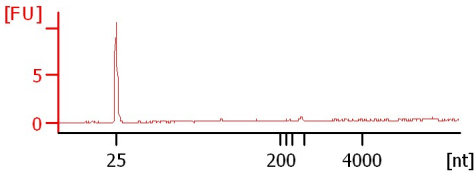
**2549**  
Brad  
RIN:1



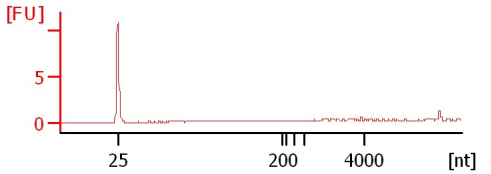
**WT A**  
Diaz  
RIN:1



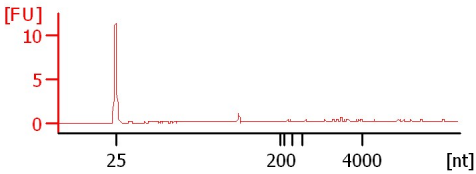
**WT R**  
Diaz  
RIN:1



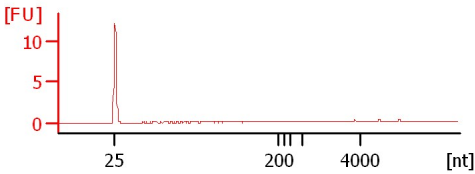
**Het A**  
Diaz  
RIN:1



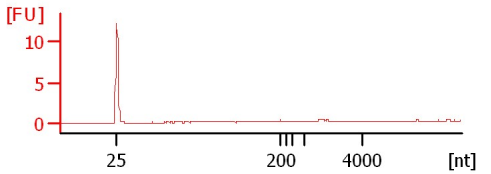
**Het A**  
Diaz  
RIN: 1.10



**WT**  
Emily  
RIN:1



**XCT**  
Emily  
RIN:1



Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-20\2014-10-20\_001.xad

Created: 10/20/2014 9:48:49 AM  
Modified: 10/20/2014 10:08:36 AM

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

Sample Name	Sample Comment	Status	Result Label	Result Color
101412-2	Farnaz Shoja-Taheri	✓	RIN N/A	
kol	Amir Kol	✓	RIN N/A	
2549	Brad	✓	RIN:1	
WT A	Diaz	✓	RIN:1	
WT R	Diaz	✓	RIN:1	
Het A	Diaz	✓	RIN:1	
Het A	Diaz	✓	RIN: 1.10	
WT	Emily	✓	RIN:1	
XCT	Emily	✓	RIN:1	
Sample 10				
Sample 11				
Sample 12				
Ladder		✓	All Other Samples	

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-20\2014-10-20\_001.xad

Created: 10/20/2014 9:48:49 AM  
Modified: 10/20/2014 10:08:36 AM

## Electrophoresis Assay Details

### General Analysis Settings

Number of Available Sample and Ladder Wells (Max.) : 13  
Minimum Visible Range [s] : 17  
Maximum Visible Range [s] : 70  
Start Analysis Time Range [s] : 19  
End Analysis Time Range [s] : 69  
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] : 19  
Integration End Time [s] : 69  
Slope Threshold : 0.6  
Height Threshold [FU] : 0.5  
Area Threshold : 0.2  
Width Threshold [s] : 0.5  
Baseline Plateau [s] : 6

### Filter Settings

Filter Width [s] : 0.5  
Polynomial Order : 4

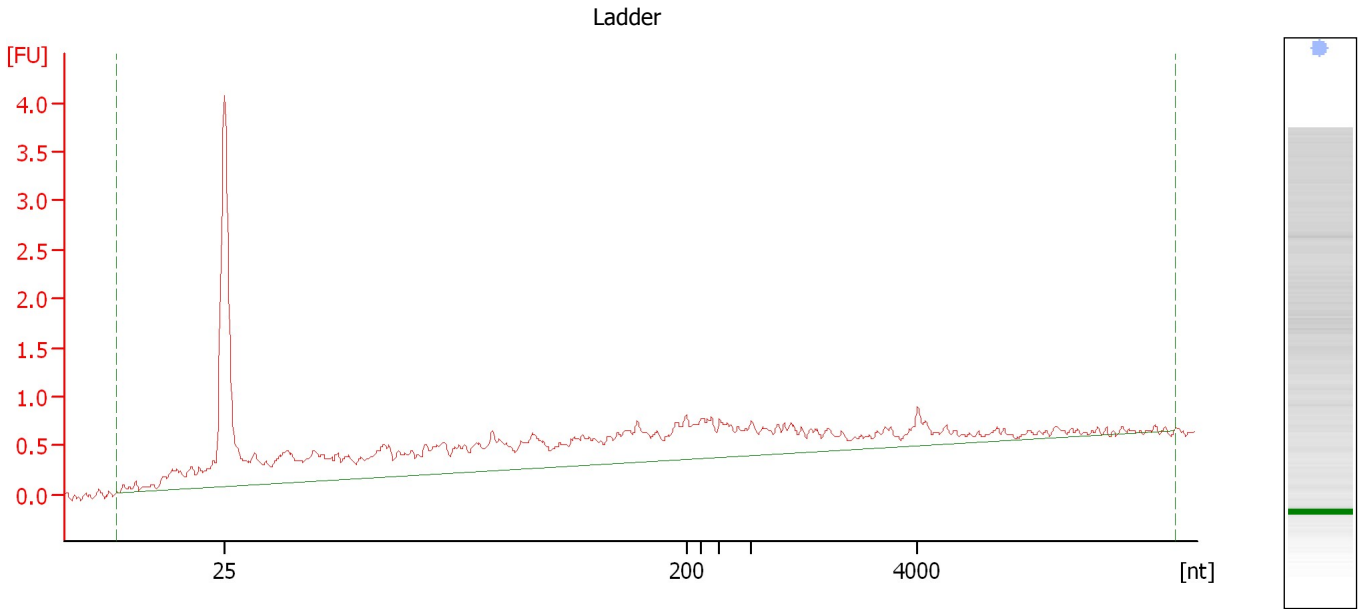
### Ladder

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

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-20\2014-10-20\_001.xad

Created: 10/20/2014 9:48:49 AM  
Modified: 10/20/2014 10:08:36 AM

**Electropherogram Summary**



**Overall Results for Ladder**

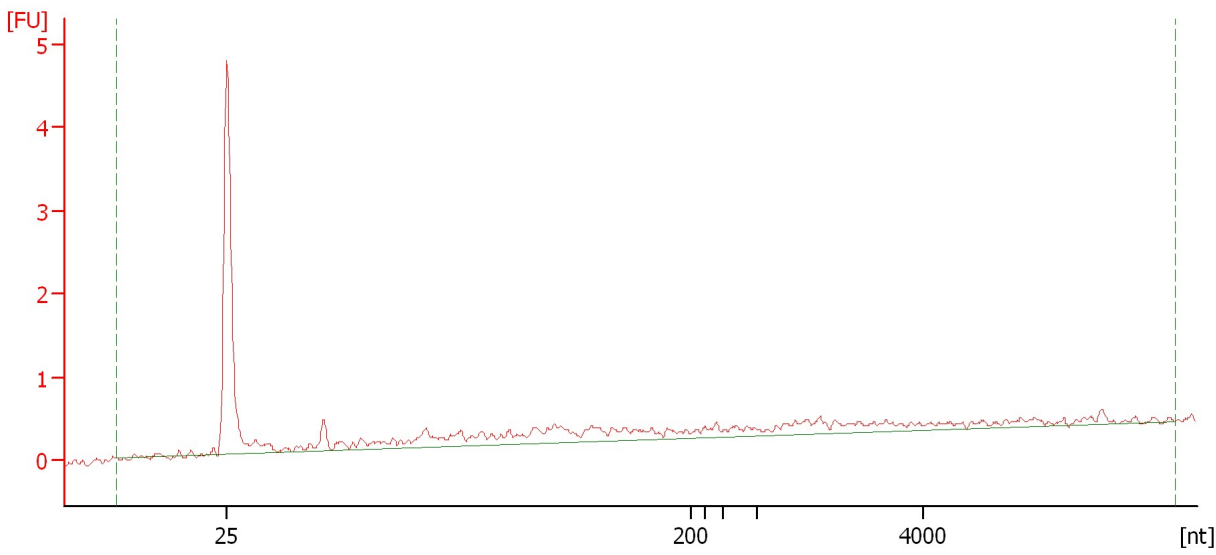
RNA Area:	23.5	Result Flagging Color:	<span style="background-color: #add8e6; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
RNA Concentration:	150 ng/ $\mu$ l	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-20\2014-10-20\_001.xad

Created: 10/20/2014 9:48:49 AM  
Modified: 10/20/2014 10:08:36 AM

**Electropherogram Summary Continued ...**

101412-2 [ Farnaz Shoja-Taheri ]



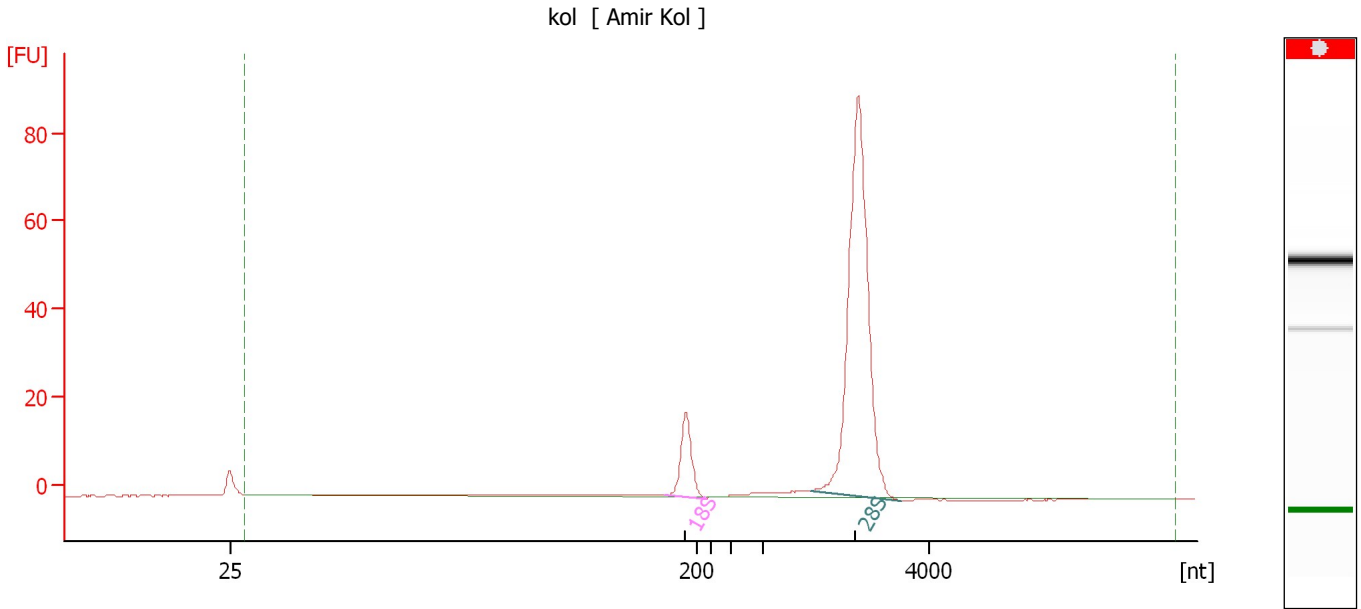
**Overall Results for sample 1 : 101412-2**

RNA Area:	10.0	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	64 ng/μl	Result Flagging Color:	<span style="background-color: #cccccc; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-20\2014-10-20\_001.xad

Created: 10/20/2014 9:48:49 AM  
Modified: 10/20/2014 10:08:36 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : kol**

RNA Area:	211.2	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	1,348 ng/μl	Result Flagging Color:	<span style="background-color: #cccccc; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	7.2	Result Flagging Label:	RIN N/A

**Fragment table for sample 2 : kol**

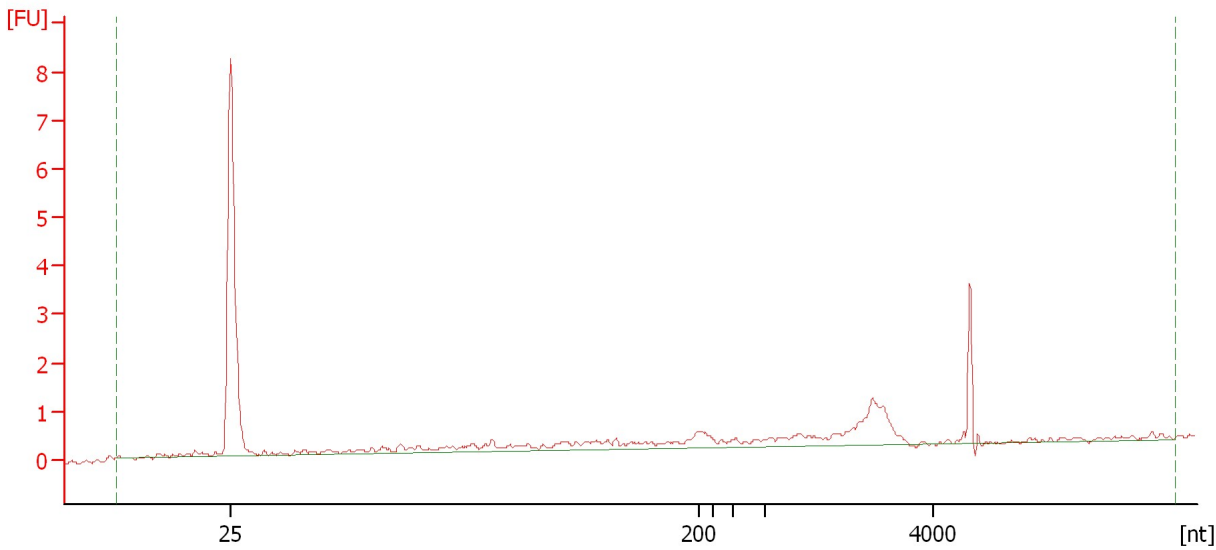
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	187	442	24.0	11.4
28S	2,574	3,660	172.5	81.7

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-20\2014-10-20\_001.xad

Created: 10/20/2014 9:48:49 AM  
Modified: 10/20/2014 10:08:36 AM

**Electropherogram Summary Continued ...**

2549 [ Brad ]



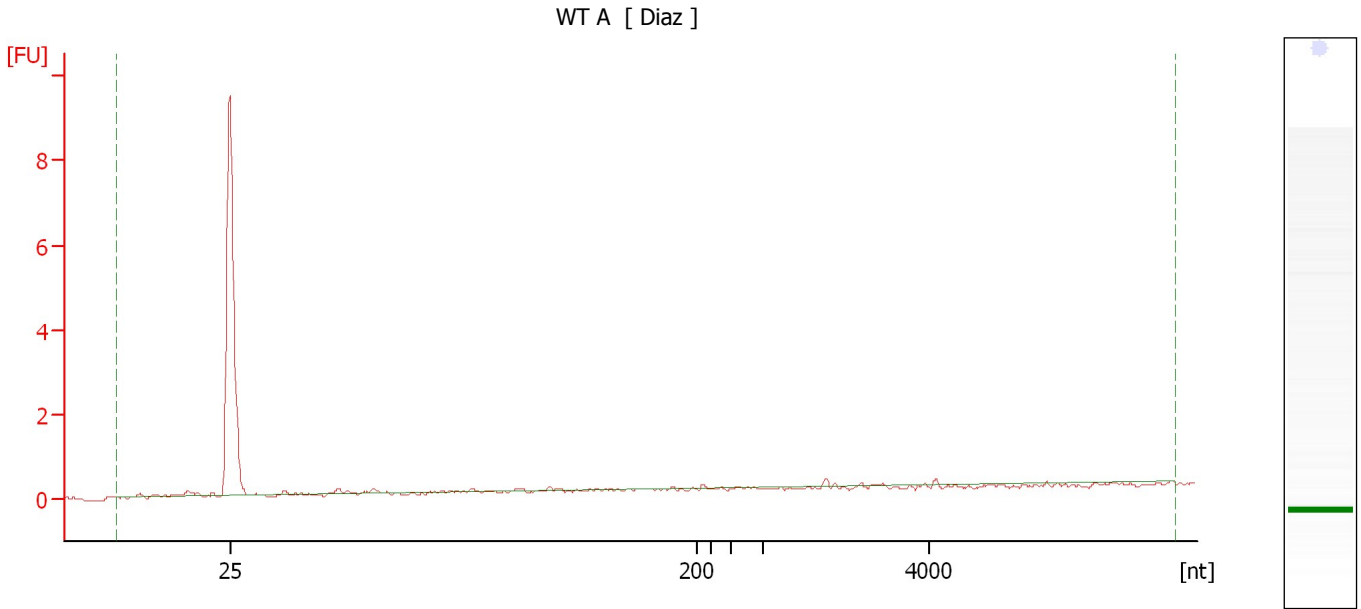
**Overall Results for sample 3 : 2549**

RNA Area:	12.2	RNA Integrity Number (RIN):	1 (B.02.08)
RNA Concentration:	78 ng/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN:1

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-20\2014-10-20\_001.xad

Created: 10/20/2014 9:48:49 AM  
Modified: 10/20/2014 10:08:36 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : WT A**

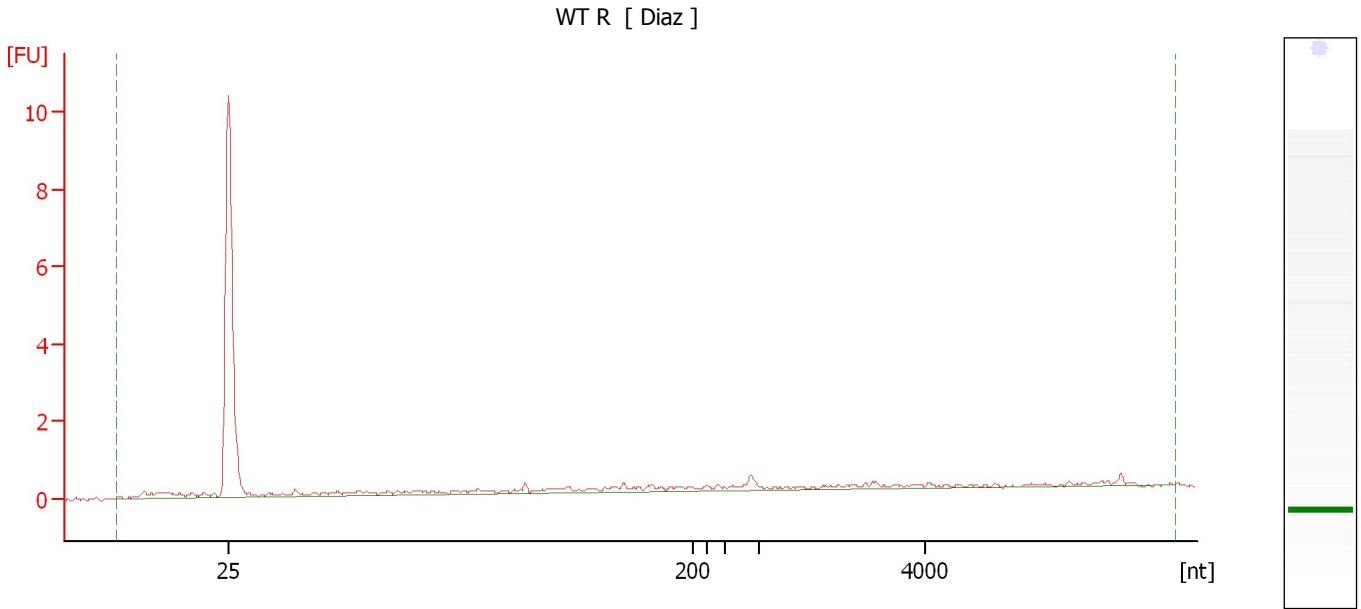
RNA Area:	1.6	RNA Integrity Number (RIN):	1 (B.02.08)
RNA Concentration:	10 ng/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN:1



Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-20\2014-10-20\_001.xad

Created: 10/20/2014 9:48:49 AM  
Modified: 10/20/2014 10:08:36 AM

**Electropherogram Summary Continued ...**



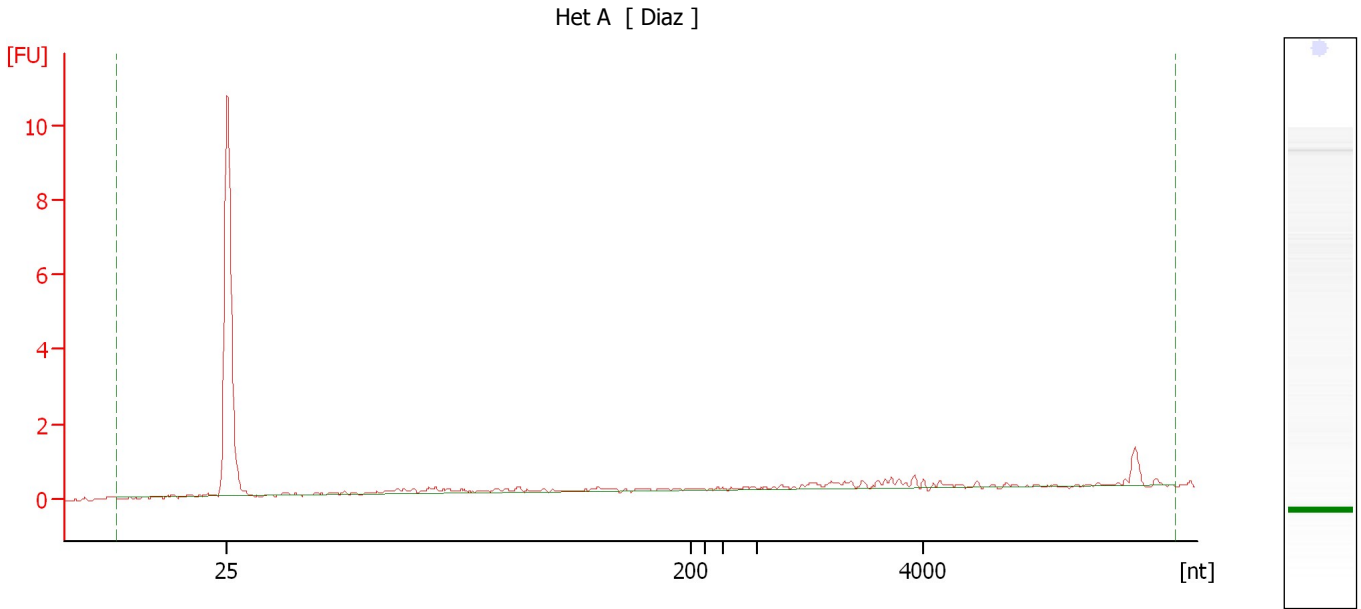
**Overall Results for sample 5 : WT R**

RNA Area:	8.8	RNA Integrity Number (RIN):	1 (B.02.08)
RNA Concentration:	56 ng/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN:1

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-20\2014-10-20\_001.xad

Created: 10/20/2014 9:48:49 AM  
Modified: 10/20/2014 10:08:36 AM

**Electropherogram Summary Continued ...**



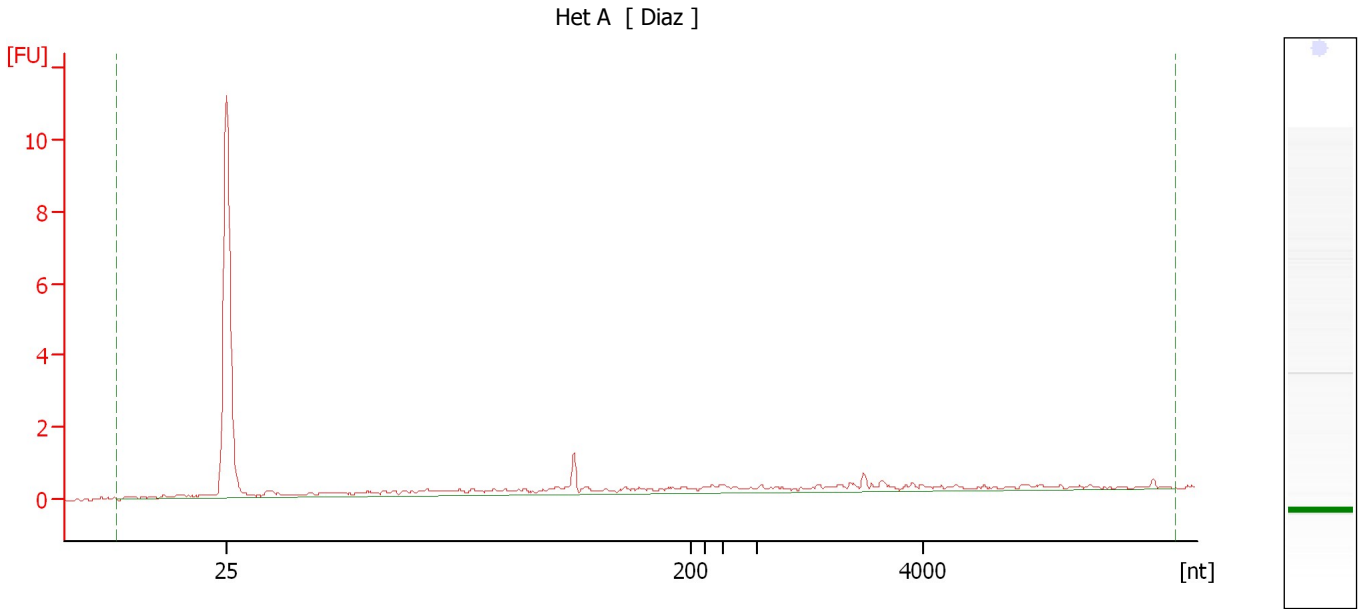
**Overall Results for sample 6 : Het A**

RNA Area:	6.6	RNA Integrity Number (RIN):	1 (B.02.08)
RNA Concentration:	42 ng/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN:1

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-20\2014-10-20\_001.xad

Created: 10/20/2014 9:48:49 AM  
Modified: 10/20/2014 10:08:36 AM

**Electropherogram Summary Continued ...**



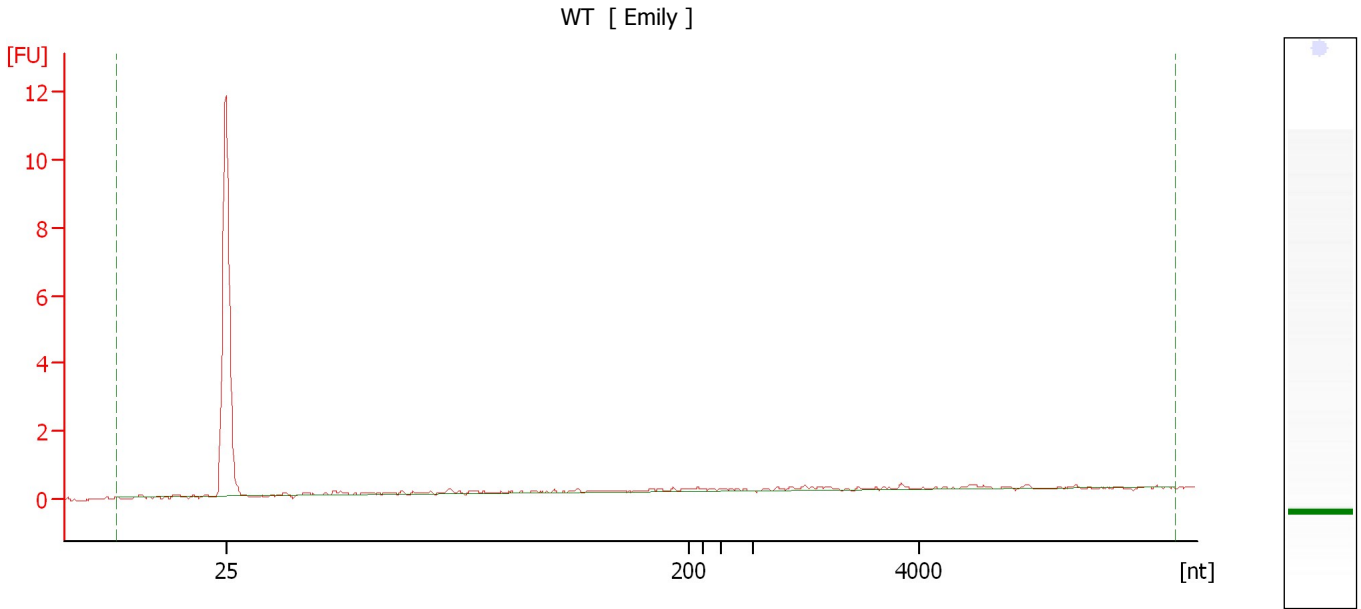
**Overall Results for sample 7 : Het A**

RNA Area:	13.2	RNA Integrity Number (RIN):	1.1 (B.02.08)
RNA Concentration:	85 ng/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 1.10

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-20\2014-10-20\_001.xad

Created: 10/20/2014 9:48:49 AM  
Modified: 10/20/2014 10:08:36 AM

**Electropherogram Summary Continued ...**



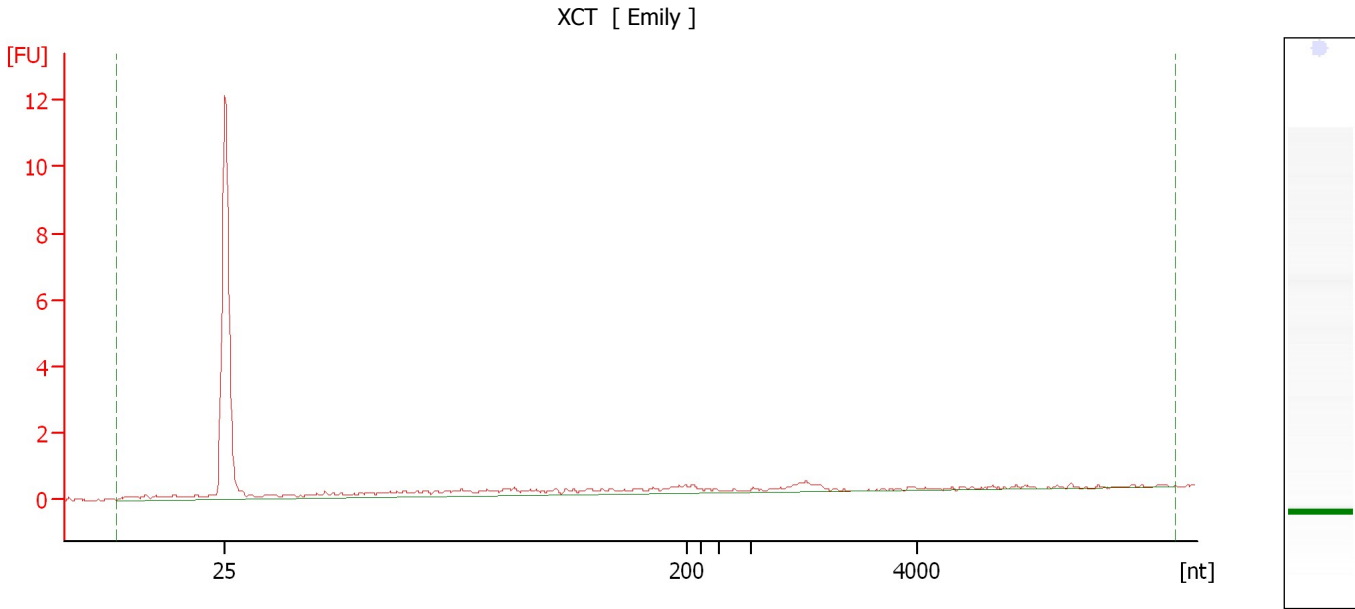
**Overall Results for sample 8 : WT**

RNA Area:	4.6	RNA Integrity Number (RIN):	1 (B.02.08)
RNA Concentration:	29 ng/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN:1

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-20\2014-10-20\_001.xad

Created: 10/20/2014 9:48:49 AM  
Modified: 10/20/2014 10:08:36 AM

**Electropherogram Summary Continued ...**



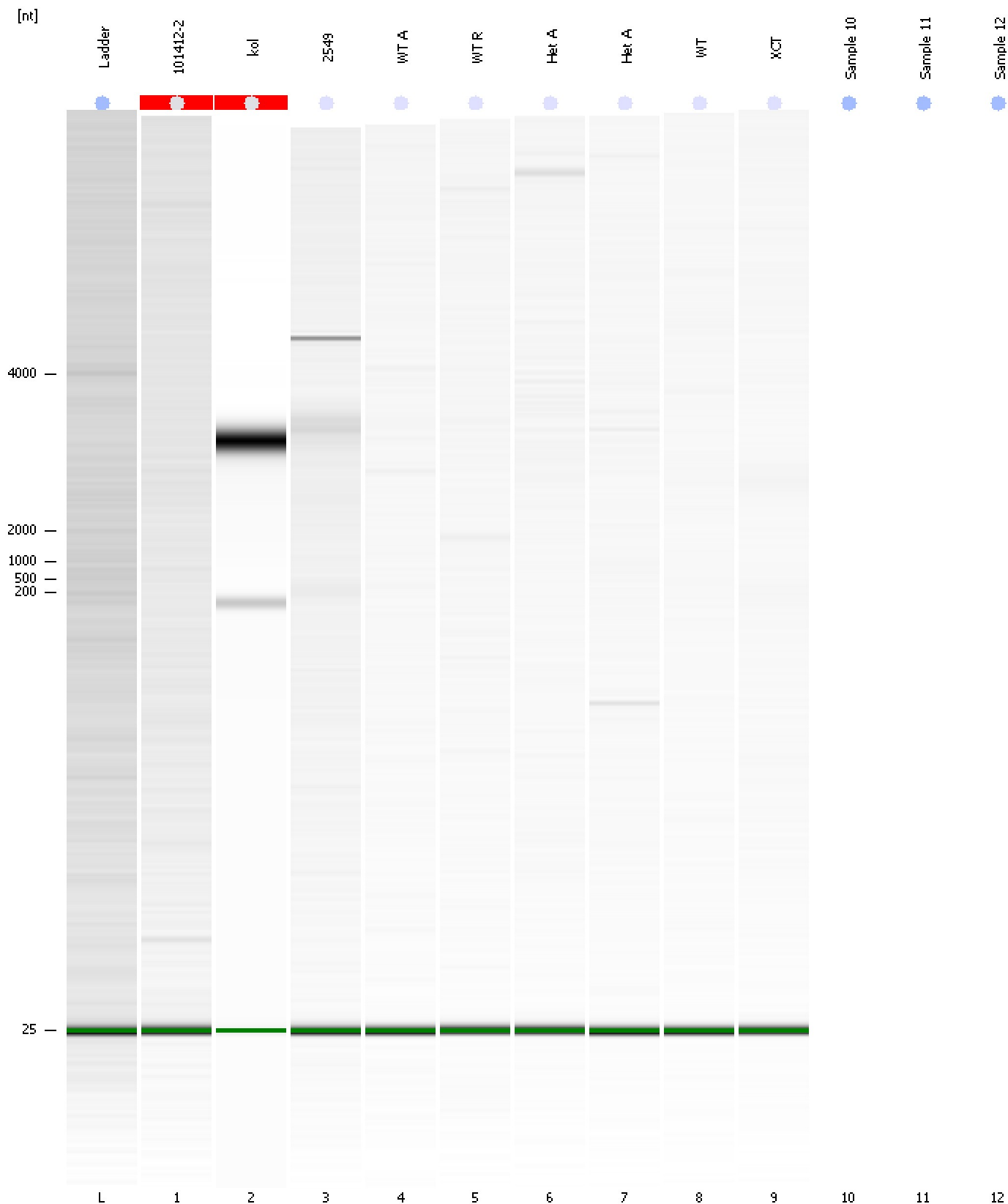
**Overall Results for sample 9 : XCT**

RNA Area:	10.8	RNA Integrity Number (RIN):	1 (B.02.08)
RNA Concentration:	69 ng/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN:1

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-20\2014-10-20\_001.xad

Created: 10/20/2014 9:48:49 AM  
Modified: 10/20/2014 10:08:36 AM

**Gel Image**

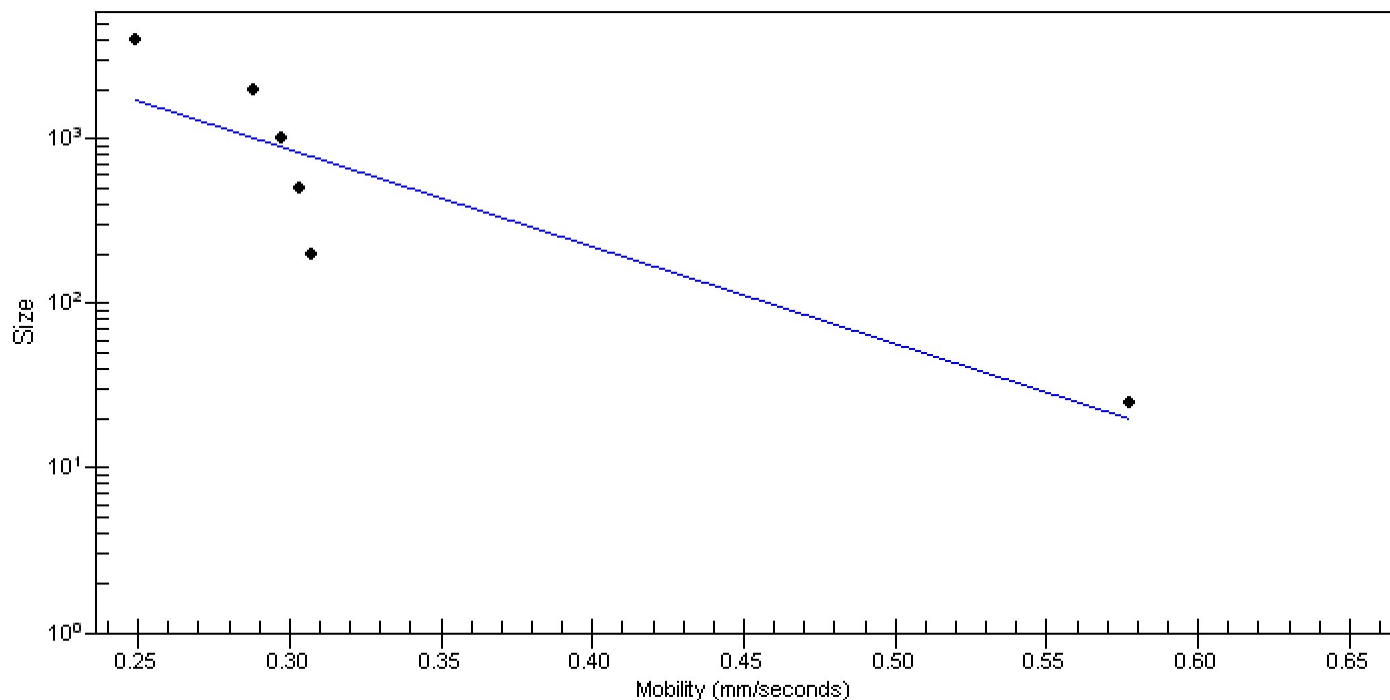


Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-20\2014-10-20\_001.xad

Created: 10/20/2014 9:48:49 AM  
Modified: 10/20/2014 10:08:36 AM

**Curves**

**Standard Curve**



Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-20\2014-10-20\_001.xad

Created: 10/20/2014 9:48:49 AM  
Modified: 10/20/2014 10:08:36 AM

**Invalid Samples**

Sample 10 has not been run, no results available.

Sample 11 has not been run, no results available.

Sample 12 has not been run, no results available.



Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-20\2014-10-20\_001.xad

Created: 10/20/2014 9:48:49 AM  
 Modified: 10/20/2014 10:08:36 AM

**Run Logbook**

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 10)		Instrument	Run		10/20/2014 10:08:32 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2014-10-20\2014-10-20_001.xad)		Instrument	Run		10/20/2014 9:48:54 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		10/20/2014 9:48:54 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		10/20/2014 9:48:54 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		10/20/2014 9:48:54 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		10/20/2014 9:48:54 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		10/20/2014 9:48:54 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		10/20/2014 9:48:54 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1