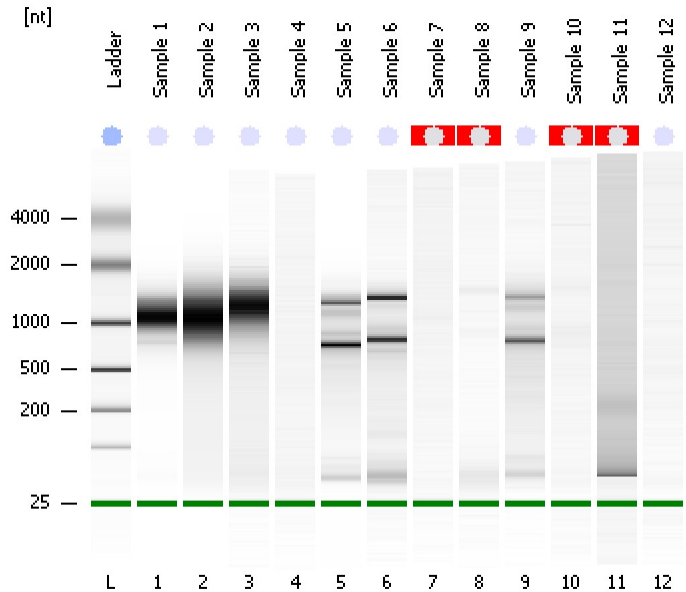


Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-21\2013-06-21\_001.xad

Created: 6/21/2013 9:53:14 AM  
Modified: 6/21/2013 10:21:27 AM

Electrophoresis File Run Summary



Instrument Information:

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

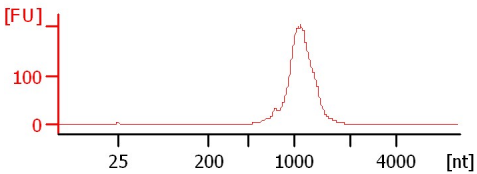
Assay Information:

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.

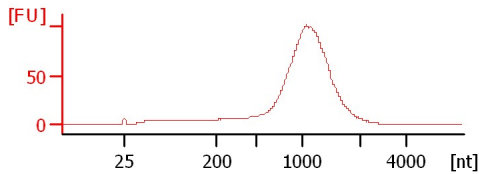
Chip Information:

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

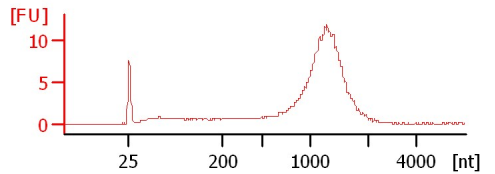
Sample 1  
RIN:10



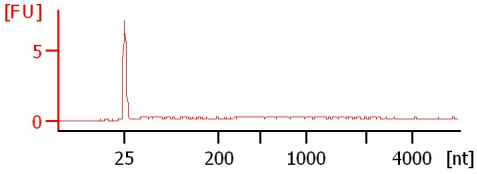
Sample 2  
RIN: 9.70



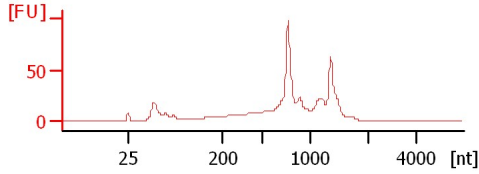
Sample 3  
RIN: 5.90



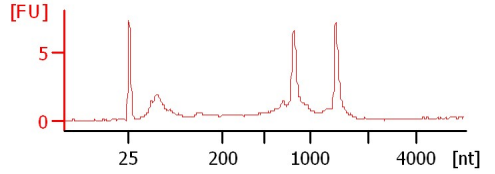
Sample 4  
RIN:1



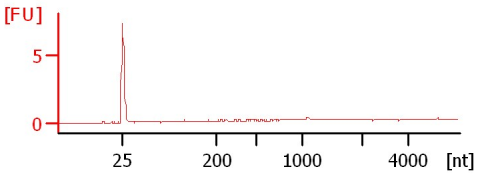
Sample 5  
RIN: 7.30



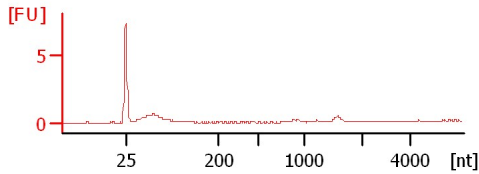
Sample 6  
RIN: 7.70



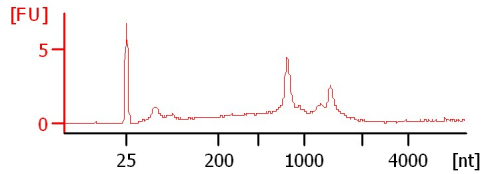
Sample 7  
RIN N/A



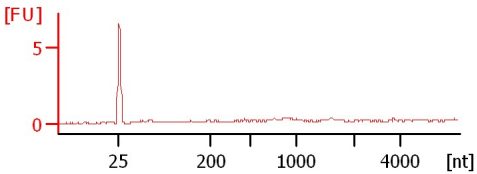
Sample 8  
RIN N/A



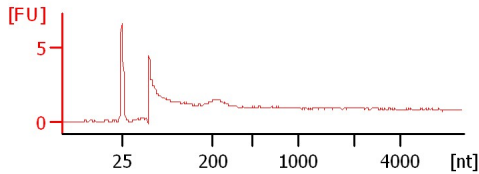
Sample 9  
RIN: 7.20



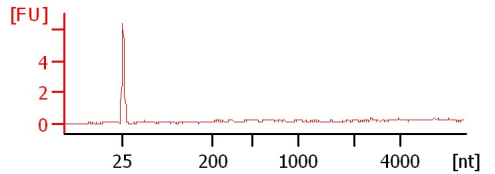
Sample 10  
RIN N/A



Sample 11  
RIN N/A



Sample 12  
RIN:1



Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-21\2013-06-21\_001.xad

Created: 6/21/2013 9:53:14 AM  
Modified: 6/21/2013 10:21:27 AM

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

Sample Name	Sample Comment	Status	Result Label	Result Color
Sample 1		✓	RIN:10	
Sample 2		✓	RIN: 9.70	
Sample 3		✓	RIN: 5.90	
Sample 4		✓	RIN:1	
Sample 5		✓	RIN: 7.30	
Sample 6		✓	RIN: 7.70	
Sample 7		✓	RIN N/A	
Sample 8		✓	RIN N/A	
Sample 9		✓	RIN: 7.20	
Sample 10		✓	RIN N/A	
Sample 11		✓	RIN N/A	
Sample 12		✓	RIN:1	
Ladder		✓	All Other Samples	

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-21\2013-06-21\_001.xad

Created: 6/21/2013 9:53:14 AM  
Modified: 6/21/2013 10:21:27 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

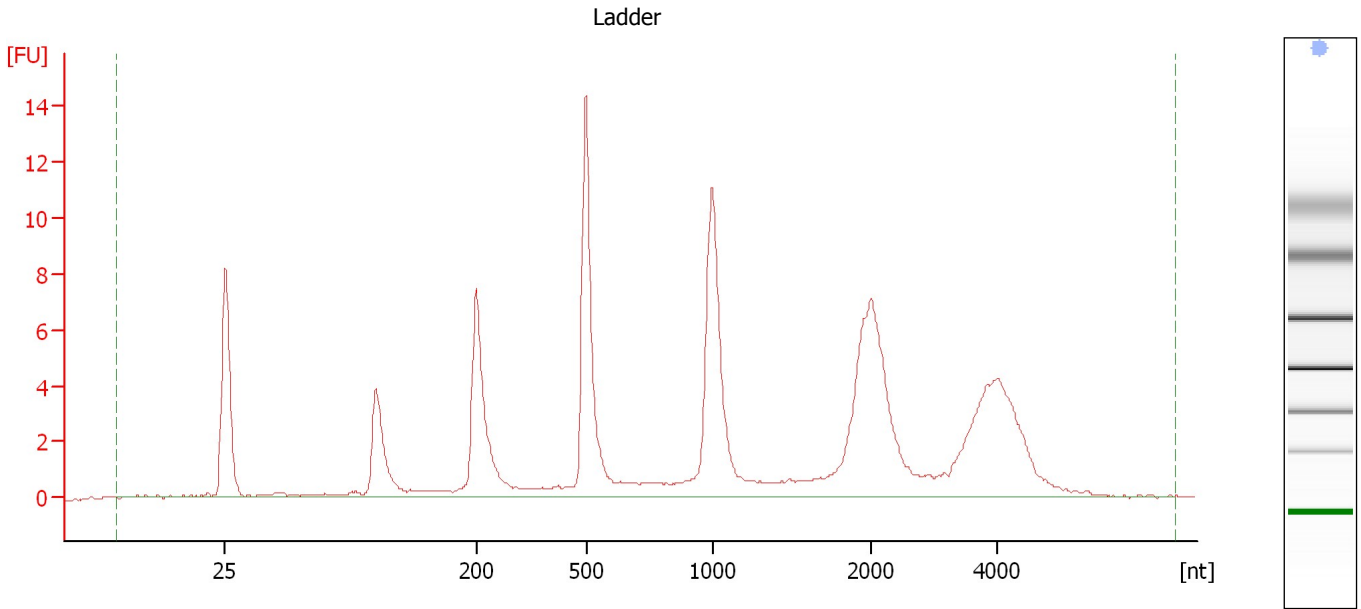
### Ladder

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\2013-06-21\2013-06-21\_001.xad

Created: 6/21/2013 9:53:14 AM  
Modified: 6/21/2013 10:21:27 AM

**Electropherogram Summary**



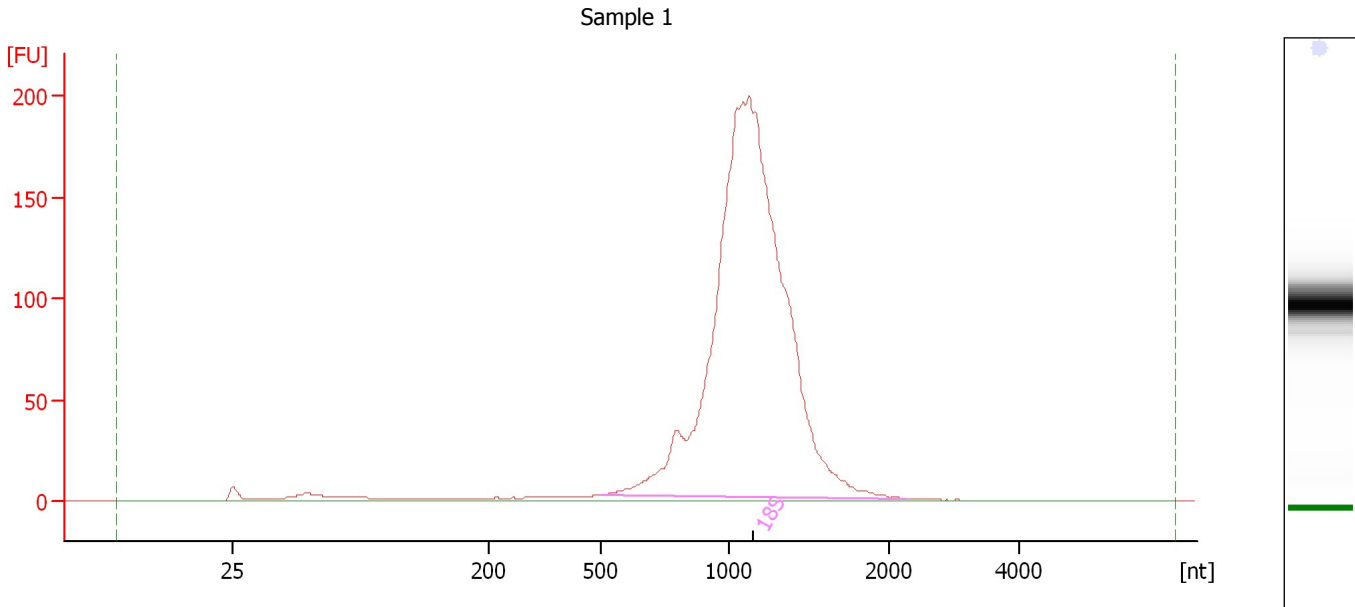
**Overall Results for Ladder**

RNA Area:	119.5	Result Flagging Color:	<span style="background-color: blue; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
RNA Concentration:	150 ng/μl	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-21\2013-06-21\_001.xad

Created: 6/21/2013 9:53:14 AM  
 Modified: 6/21/2013 10:21:27 AM

**Electropherogram Summary Continued ...**



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

RNA Area:	1,650.5	RNA Integrity Number (RIN):	10 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	2,072 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:10

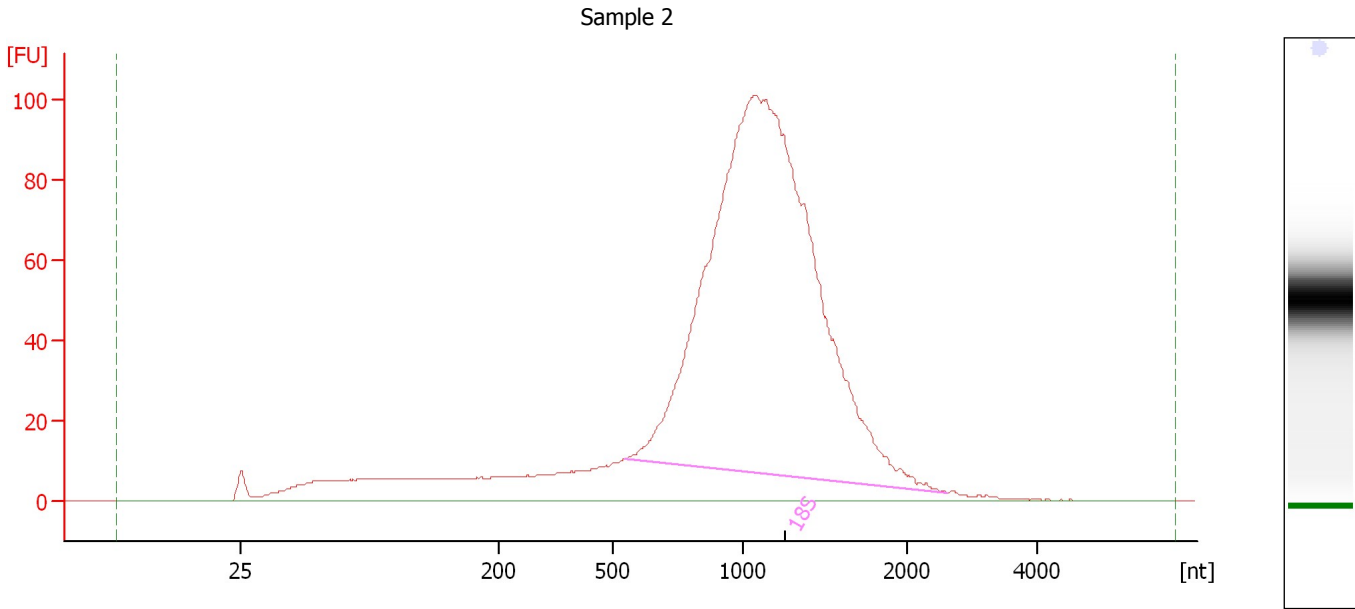
**Fragment table for sample 1 : Sample 1**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	498	2,283	1,499.7	90.9

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-21\2013-06-21\_001.xad

Created: 6/21/2013 9:53:14 AM  
Modified: 6/21/2013 10:21:27 AM

**Electropherogram Summary Continued ...**



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

RNA Area:	1,584.2	RNA Integrity Number (RIN):	9.7 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	1,988 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: 9.70

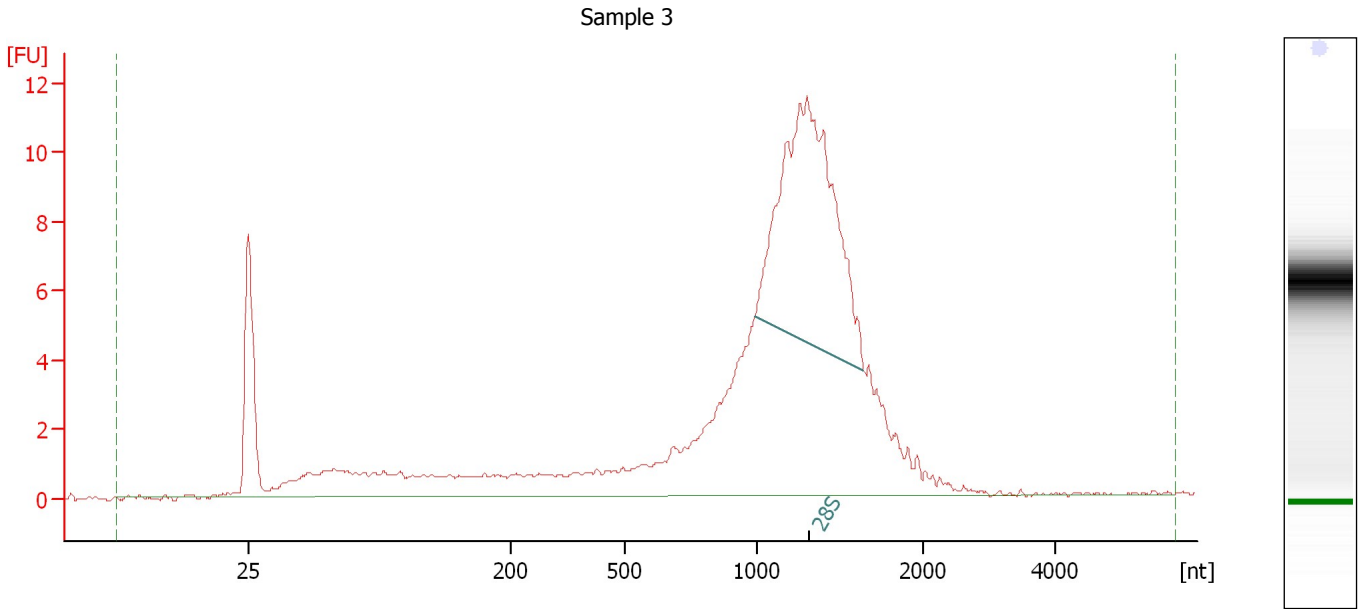
**Fragment table for sample 2 : Sample 2**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	548	2,628	1,106.6	69.9

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-21\2013-06-21\_001.xad

Created: 6/21/2013 9:53:14 AM  
Modified: 6/21/2013 10:21:27 AM

**Electropherogram Summary Continued ...**



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

RNA Area:	148.5	RNA Integrity Number (RIN):	5.9 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	186 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: 5.90

**Fragment table for sample 3 : Sample 3**

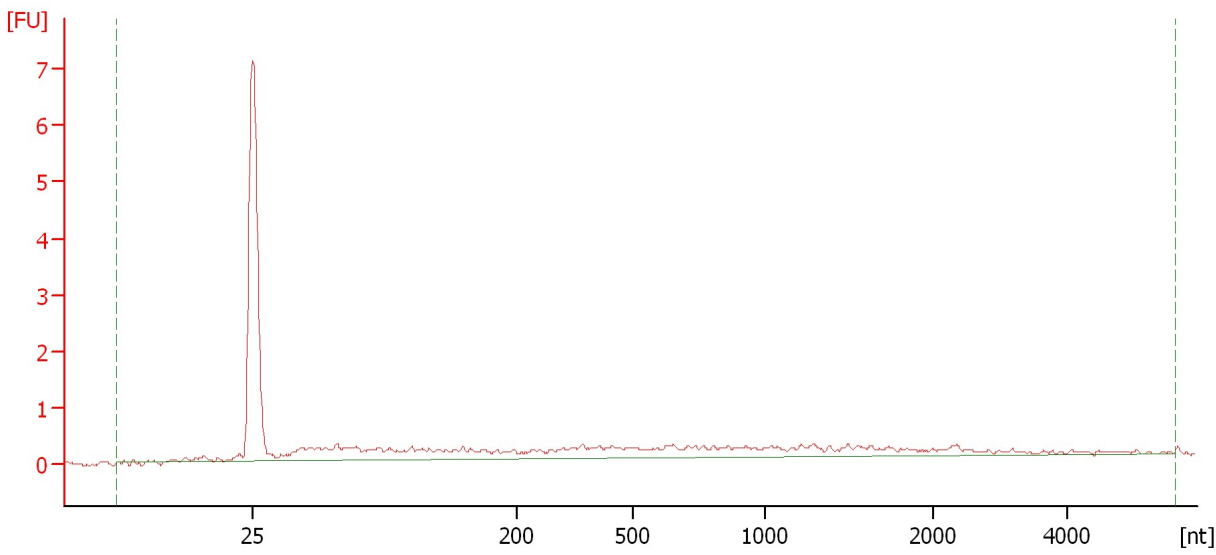
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
28S	990	1,643	40.1	27.0

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-21\2013-06-21\_001.xad

Created: 6/21/2013 9:53:14 AM  
Modified: 6/21/2013 10:21:27 AM

**Electropherogram Summary Continued ...**

Sample 4



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

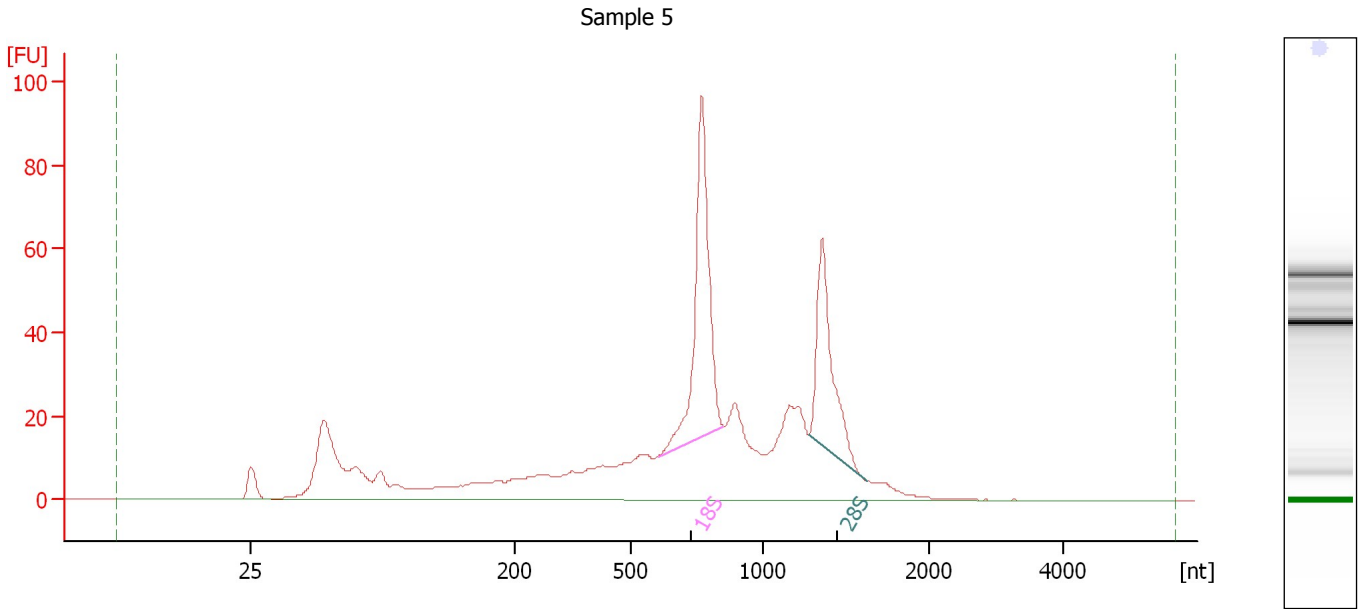
RNA Area:	15.1	RNA Integrity Number (RIN):	1 (B.02.08)
RNA Concentration:	19 ng/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN:1



Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-21\2013-06-21\_001.xad

Created: 6/21/2013 9:53:14 AM  
 Modified: 6/21/2013 10:21:27 AM

**Electropherogram Summary Continued ...**



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

RNA Area:	794.2	RNA Integrity Number (RIN):	7.3 (B.02.08)
RNA Concentration:	997 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]:	0.6	Result Flagging Label:	RIN: 7.30

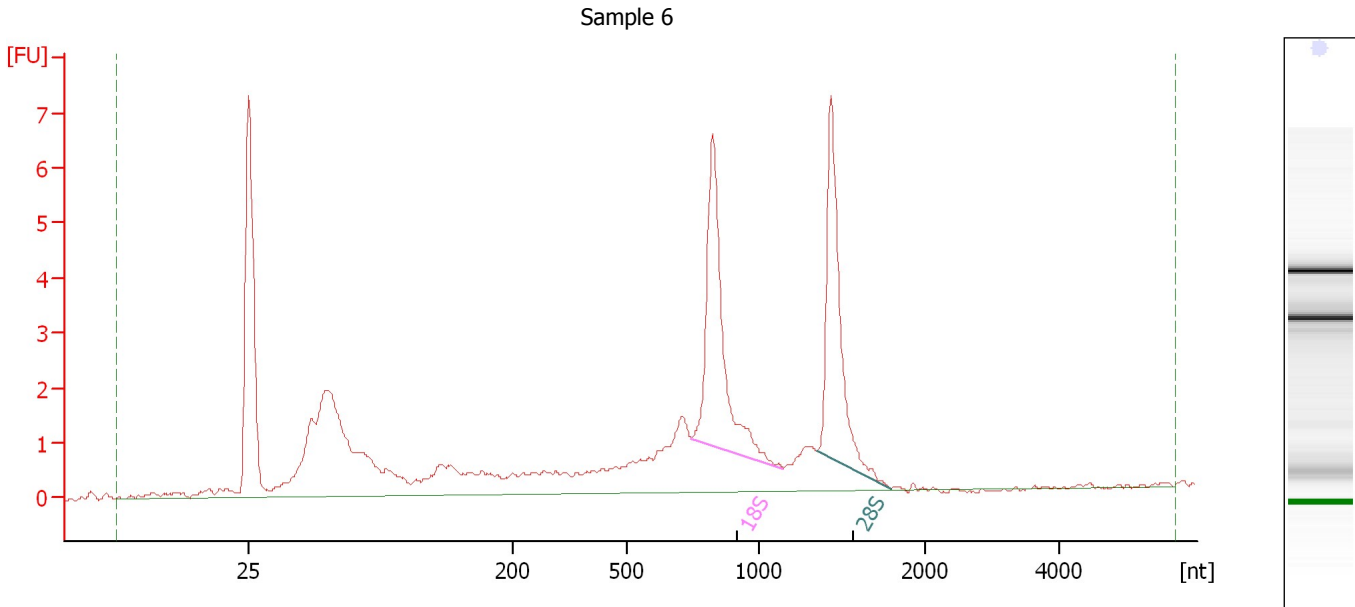
**Fragment table for sample 5 : Sample 5**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	603	849	127.8	16.1
28S	1,268	1,615	77.6	9.8

Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-21\2013-06-21\_001.xad

Created: 6/21/2013 9:53:14 AM  
 Modified: 6/21/2013 10:21:27 AM

**Electropherogram Summary Continued ...**



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

RNA Area:	64.1	RNA Integrity Number (RIN):	7.7 (B.02.08)
RNA Concentration:	80 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]:	0.9	Result Flagging Label:	RIN: 7.70

**Fragment table for sample 6 : Sample 6**

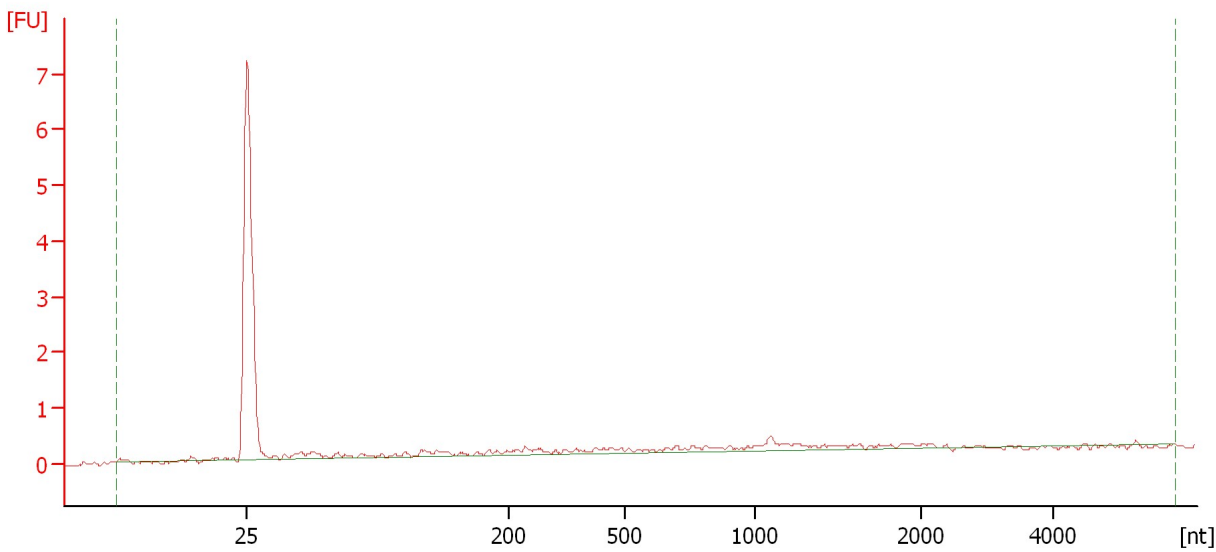
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	743	1,146	10.0	15.5
28S	1,346	1,791	8.6	13.4

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-21\2013-06-21\_001.xad

Created: 6/21/2013 9:53:14 AM  
Modified: 6/21/2013 10:21:27 AM

**Electropherogram Summary Continued ...**

Sample 7



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

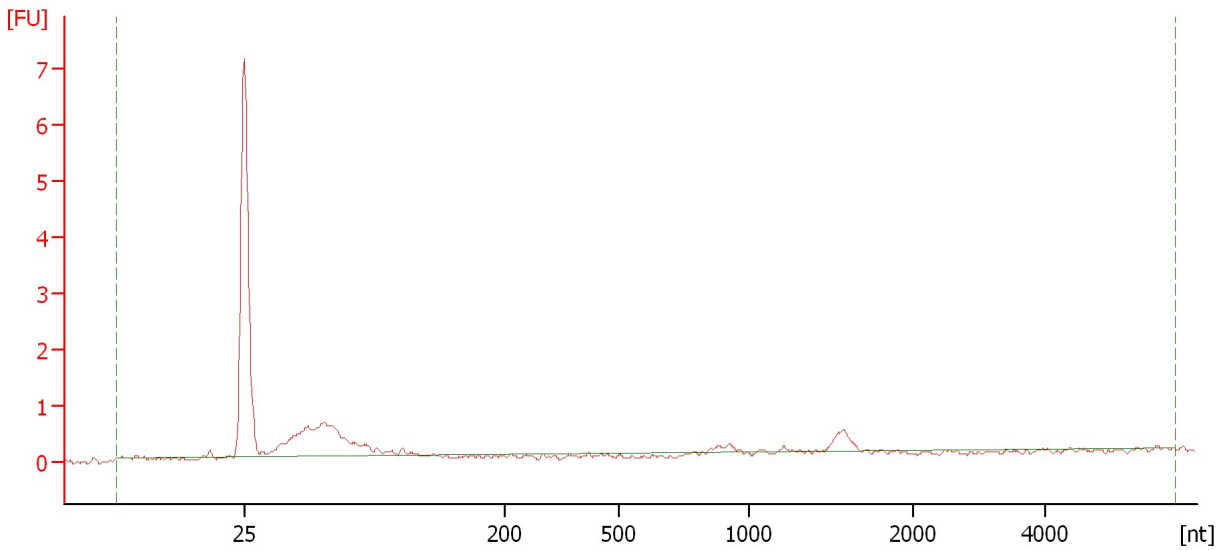
RNA Area:	5.4	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	7 ng/μl	Result Flagging Color:	<span style="background-color: #cccccc; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-21\2013-06-21\_001.xad


Created: 6/21/2013 9:53:14 AM  
Modified: 6/21/2013 10:21:27 AM

**Electropherogram Summary Continued ...**

Sample 8



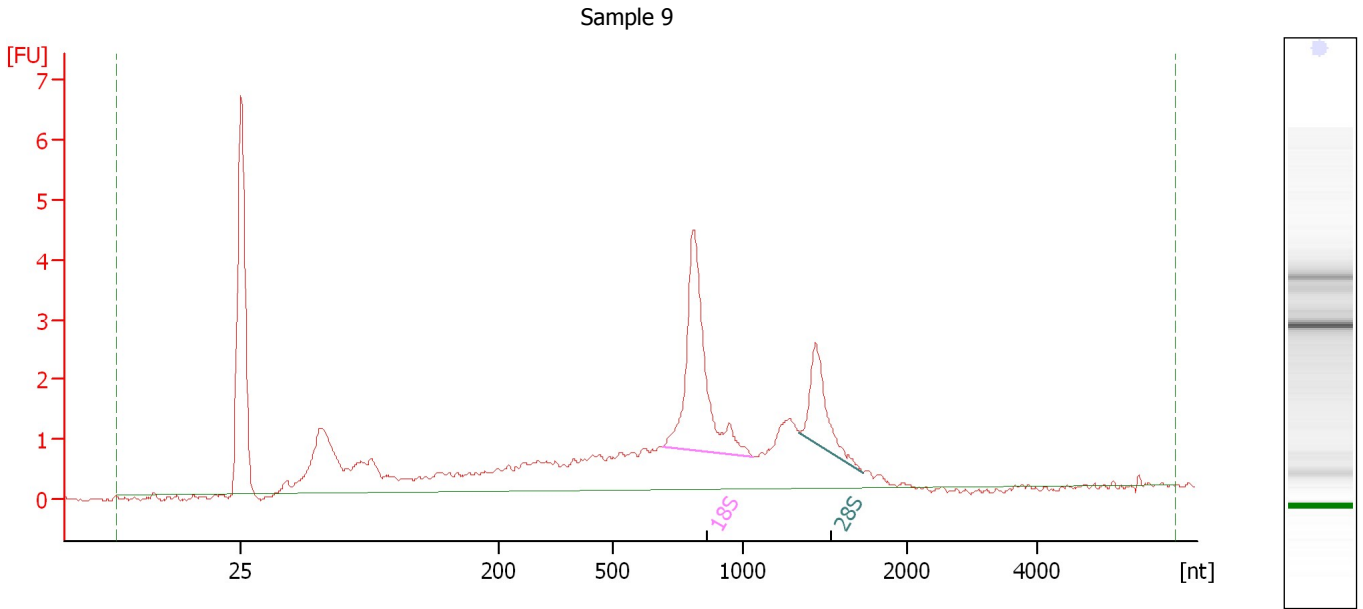
**Overall Results for sample 8 : Sample 8**

RNA Area:	7.8	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	10 ng/μl	Result Flagging Color:	
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\2013-06-21\2013-06-21\_001.xad

Created: 6/21/2013 9:53:14 AM  
Modified: 6/21/2013 10:21:27 AM

**Electropherogram Summary Continued ...**



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

RNA Area:	45.9	RNA Integrity Number (RIN):	7.2 (B.02.08)
RNA Concentration:	58 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]:	0.4	Result Flagging Label:	RIN: 7.20

**Fragment table for sample 9 : Sample 9**

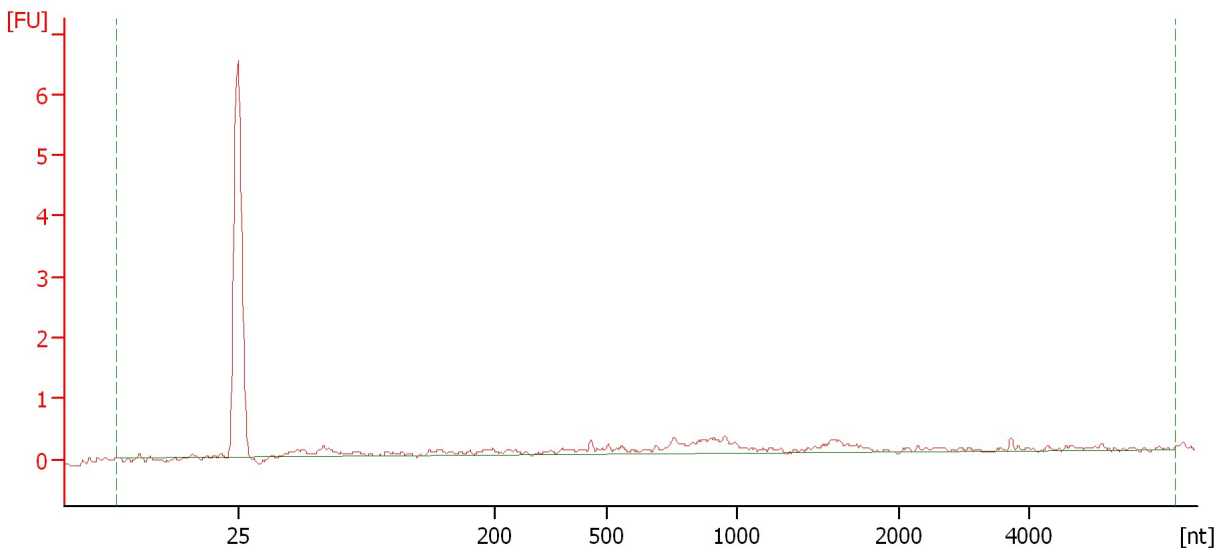
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	687	1,059	7.8	17.1
28S	1,347	1,734	2.8	6.0

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-21\2013-06-21\_001.xad

Created: 6/21/2013 9:53:14 AM  
Modified: 6/21/2013 10:21:27 AM

**Electropherogram Summary Continued ...**

Sample 10



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

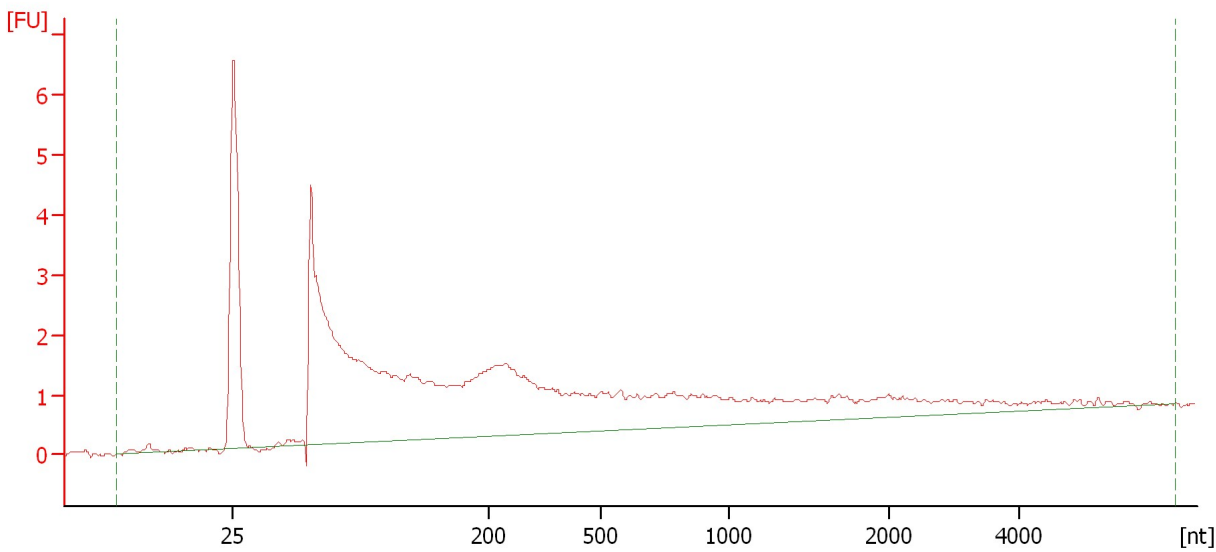
RNA Area:	6.2	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	8 ng/μl	Result Flagging Color:	<span style="background-color: #cccccc; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-21\2013-06-21\_001.xad


Created: 6/21/2013 9:53:14 AM  
Modified: 6/21/2013 10:21:27 AM

**Electropherogram Summary Continued ...**

Sample 11



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

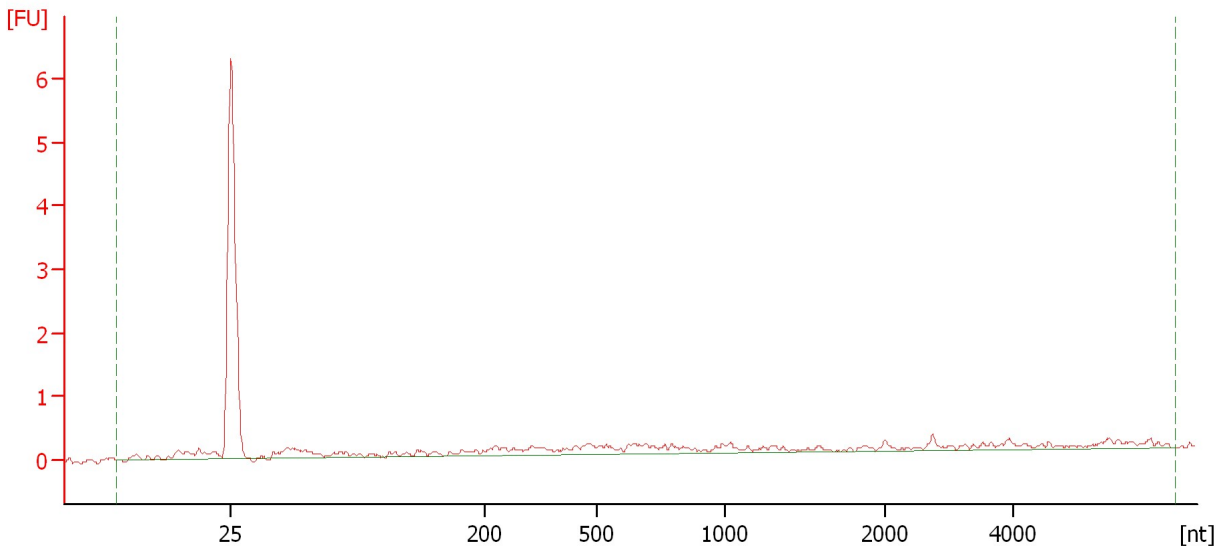
RNA Area:	63.2	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	79 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-21\2013-06-21\_001.xad

Created: 6/21/2013 9:53:14 AM  
Modified: 6/21/2013 10:21:27 AM

**Electropherogram Summary Continued ...**

Sample 12



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

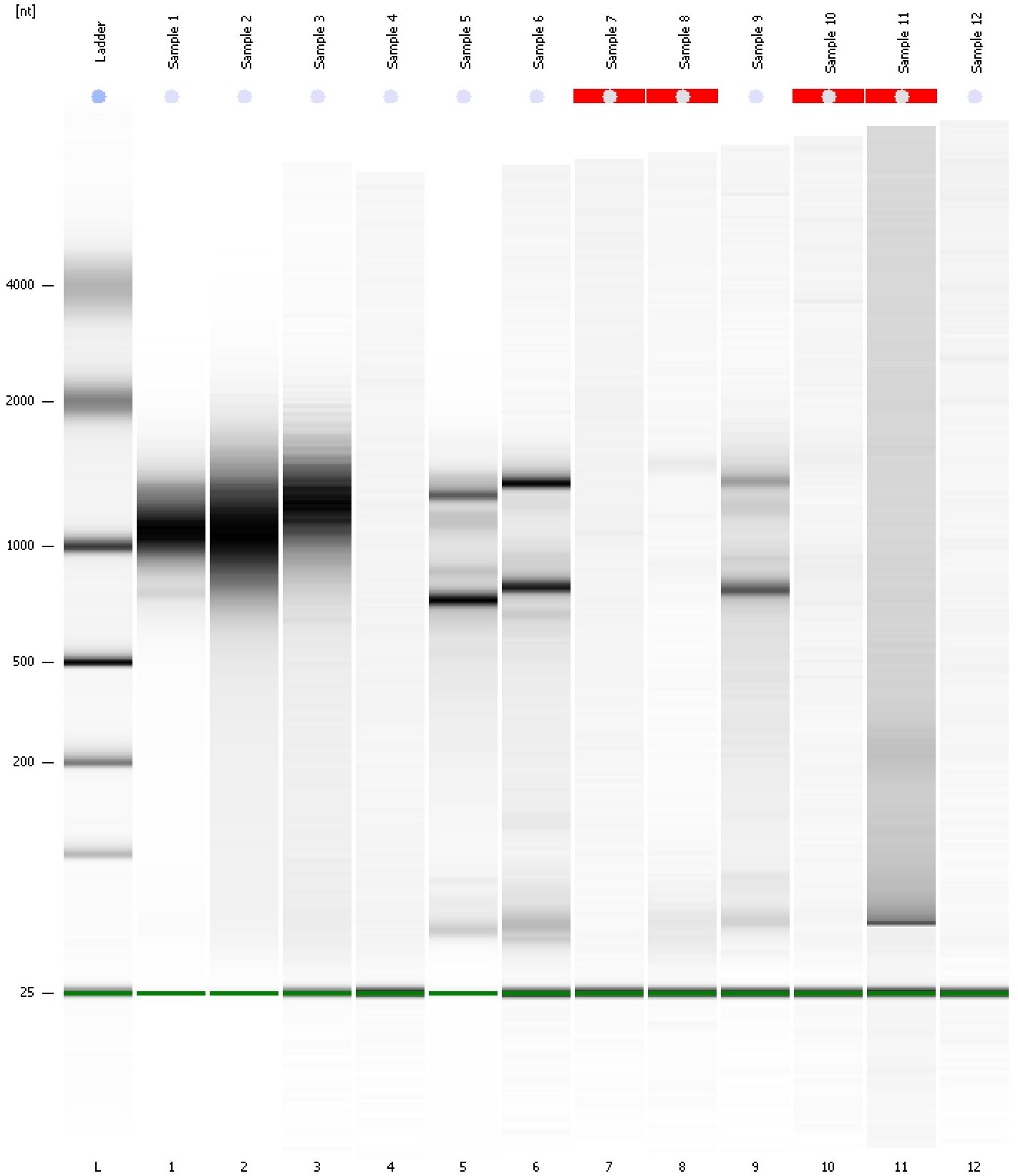
RNA Area:	8.6	RNA Integrity Number (RIN):	1 (B.02.08)
RNA Concentration:	11 ng/ $\mu$ l	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN:1



Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-21\2013-06-21\_001.xad

Created: 6/21/2013 9:53:14 AM  
Modified: 6/21/2013 10:21:27 AM

**Gel Image**



Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-21\2013-06-21\_001.xad

Created: 6/21/2013 9:53:14 AM  
 Modified: 6/21/2013 10:21:27 AM

**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		6/21/2013 10:17:03 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2013-06-21\2013-06-21_001.xad)		Instrument	Run		6/21/2013 9:53:20 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		6/21/2013 9:53:20 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		6/21/2013 9:53:20 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		6/21/2013 9:53:20 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		6/21/2013 9:53:20 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		6/21/2013 9:53:20 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		6/21/2013 9:53:20 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1