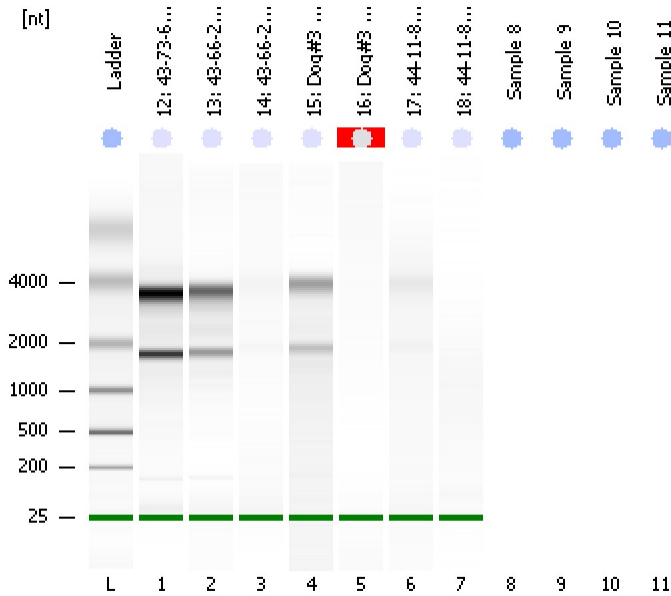


Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-10-31\2016-10-31\_003.xad

Created: 10/31/2016 12:02:57 PM  
Modified: 10/31/2016 12:20:10 PM

Electrophoresis File Run Summary



Instrument Information:

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

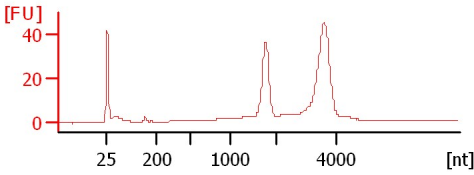
Assay Information:

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

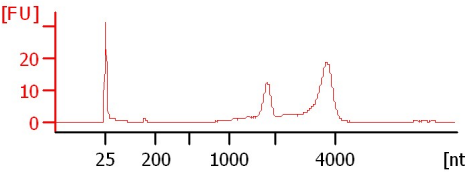
Chip Information:

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

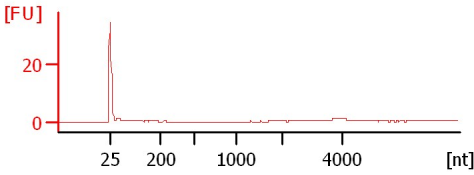
12: 43-73-69 dDCs 1  
QC 132  
RIN:10



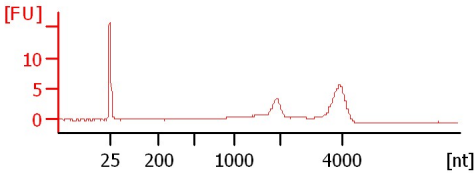
13: 43-66-21 LCs 1  
QC 132  
RIN: 9.90



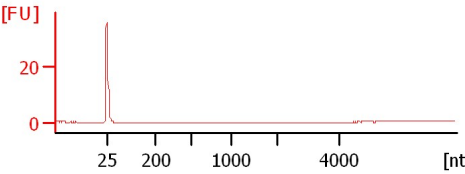
14: 43-66-21 dDCs 1  
QC 132  
RIN: 1.60



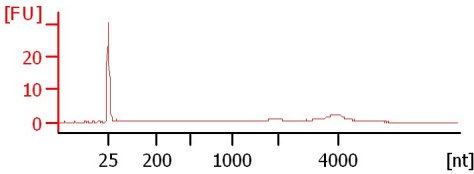
15: Dog#3 LCs1  
QC 132  
RIN: 8.20



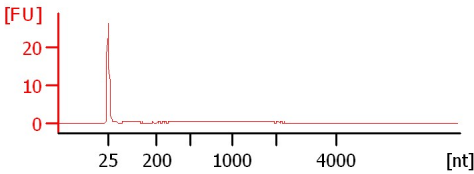
16: Dog#3 dDCs1  
QC 132  
RIN N/A



17: 44-11-88 LCs1  
QC 132  
RIN:1



18: 44-11-88 dDCs1  
QC 132  
RIN:1



Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-10-31\2016-10-31\_003.xad

Created: 10/31/2016 12:02:57 PM  
Modified: 10/31/2016 12:20:10 PM

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

Sample Name	Sample Comment	Status	Result Label	Result Color
12: 43-73-69 dDCs 1	QC 132	✓	RIN:10	
13: 43-66-21 LCs 1	QC 132	✓	RIN: 9.90	
14: 43-66-21 dDCs 1	QC 132	✓	RIN: 1.60	
15: Dog#3 LCs1	QC 132	✓	RIN: 8.20	
16: Dog#3 dDCs1	QC 132	✓	RIN N/A	
17: 44-11-88 LCs1	QC 132	✓	RIN:1	
18: 44-11-88 dDCs1	QC 132	✓	RIN:1	
Sample 8			All Other Samples	
Sample 9			All Other Samples	
Sample 10			All Other Samples	
Sample 11			All Other Samples	
Ladder		✓	All Other Samples	

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-10-31\2016-10-31\_003.xad

Created: 10/31/2016 12:02:57 PM  
Modified: 10/31/2016 12:20:10 PM

## Electrophoresis Assay Details

### General Analysis Settings

Number of Available Sample and Ladder Wells (Max.) : 12

Minimum Visible Range [s] : 17

Maximum Visible Range [s] : 70

Start Analysis Time Range [s] : 18

End Analysis Time Range [s] : 69

Ladder Concentration [pg/ $\mu$ l] : 1000

Lower Marker Concentration [pg/ $\mu$ l] : 0

Upper Marker Concentration [pg/ $\mu$ l] : 0

Used Lower Marker for Quantitation

Standard Curve Fit is Logarithmic

Show Data Aligned to Lower Marker

### Integrator Settings

Integration Start Time [s] : 18

Integration End Time [s] : 69

Slope Threshold : 0.6

Height Threshold [FU] : 0.5

Area Threshold : 0.2

Width Threshold [s] : 0.3

Baseline Plateau [s] : 6

### Filter Settings

Filter Width [s] : 0.5

Polynomial Order : 4

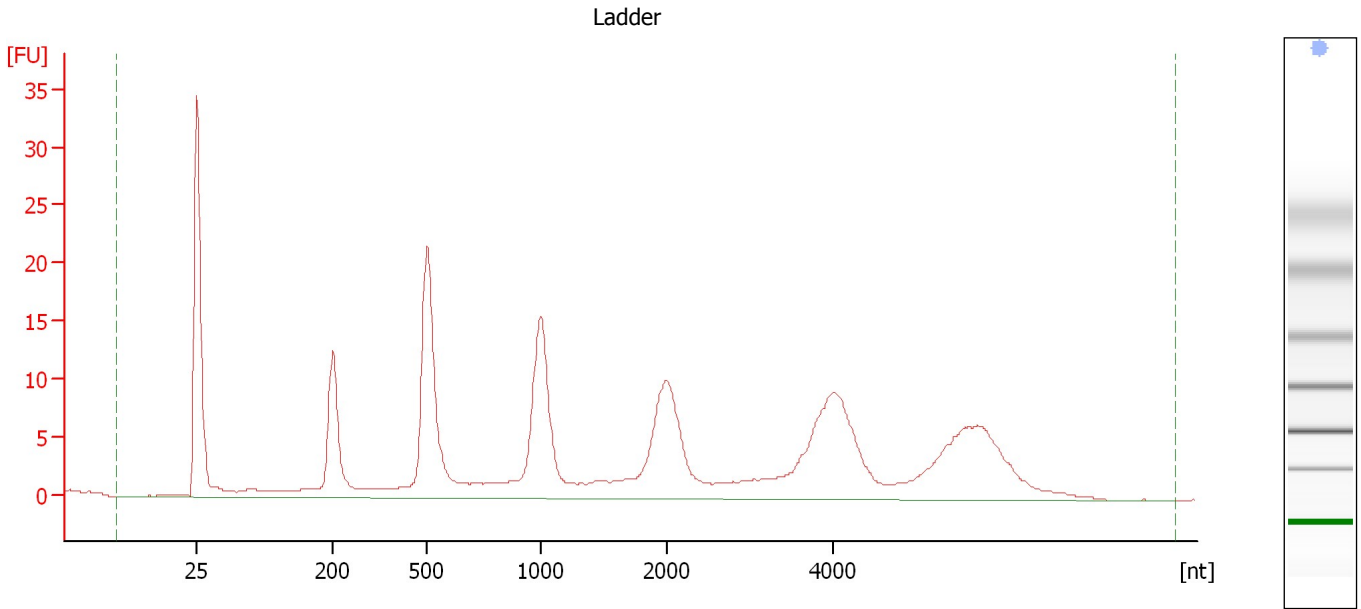
### Ladder

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

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-10-31\2016-10-31\_003.xad

Created: 10/31/2016 12:02:57 PM  
Modified: 10/31/2016 12:20:10 PM

**Electropherogram Summary**



**Overall Results for Ladder**

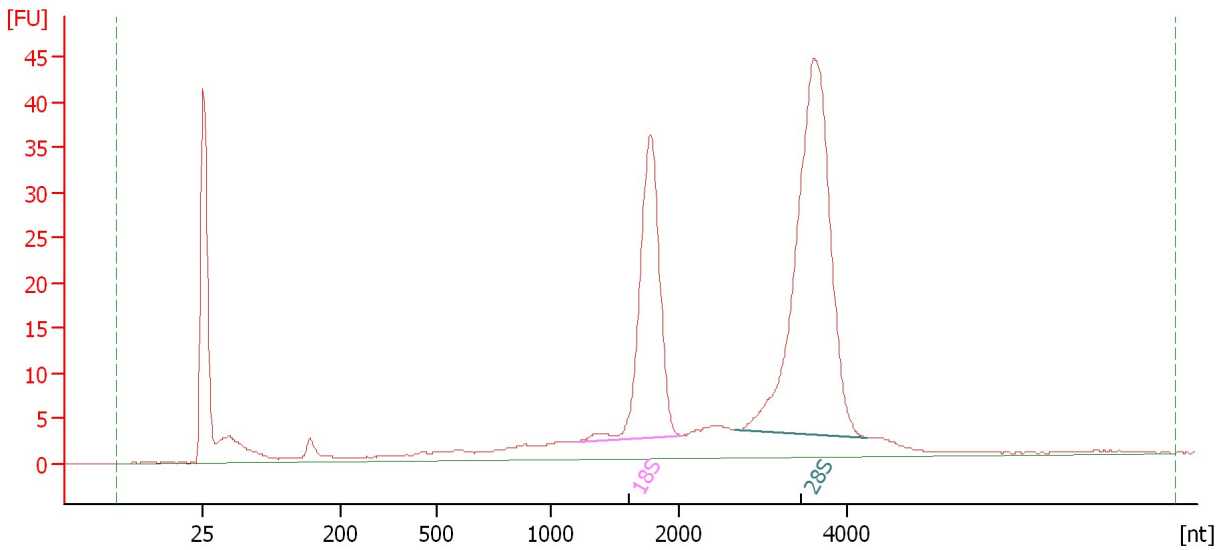
RNA Area:	282.7	Result Flagging Color:	<span style="background-color: blue; color: blue;"> </span>
RNA Concentration:	1,000 pg/μl	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-10-31\2016-10-31\_003.xad

Created: 10/31/2016 12:02:57 PM  
Modified: 10/31/2016 12:20:10 PM

**Electropherogram Summary Continued ...**

12: 43-73-69 dDCs 1 [ QC 132 ]



**Overall Results for sample 1 : 12: 43-73-69 dDCs 1**

RNA Area: 367.0 RNA Integrity Number (RIN): 10 (B.02.08)  
RNA Concentration: 1,298 pg/μl Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.8 Result Flagging Label: RIN:10

**Fragment table for sample 1 : 12: 43-73-69 dDCs 1**

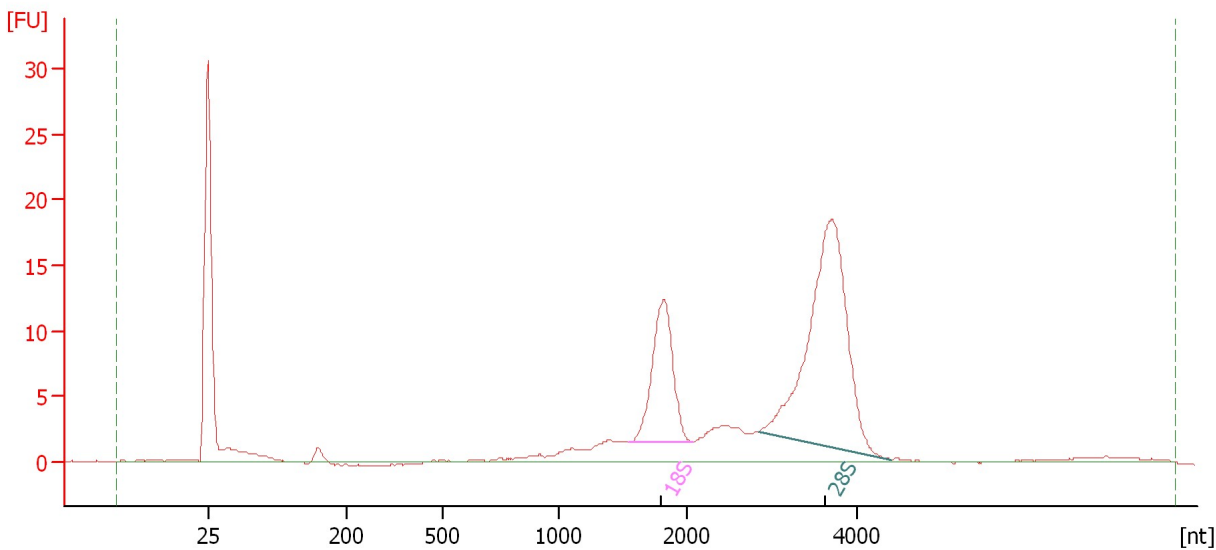
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,216	2,029	81.7	22.3
28S	2,662	4,231	150.3	41.0

Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-10-31\2016-10-31\_003.xad

Created: 10/31/2016 12:02:57 PM  
 Modified: 10/31/2016 12:20:10 PM

**Electropherogram Summary Continued ...**

13: 43-66-21 LCs 1 [ QC 132 ]



**Overall Results for sample 2 : 13: 43-66-21 LCs 1**

RNA Area:	157.2	RNA Integrity Number (RIN):	9.9 (B.02.08)
RNA Concentration:	556 µg/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]:	2.5	Result Flagging Label:	RIN: 9.90

**Fragment table for sample 2 : 13: 43-66-21 LCs 1**

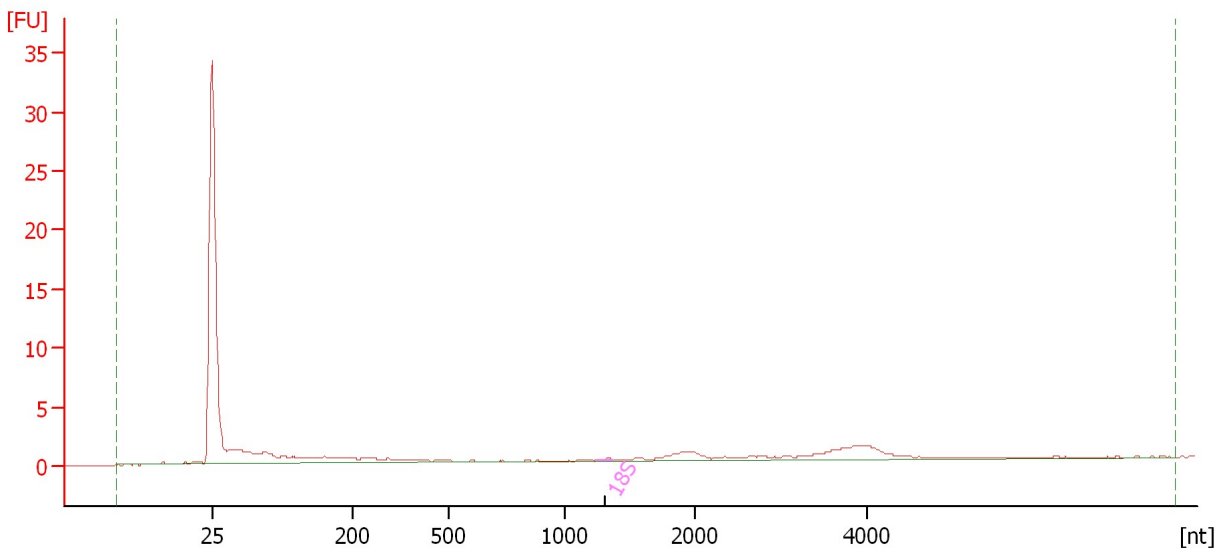
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,556	2,069	27.1	17.2
28S	2,835	4,404	68.3	43.5

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-10-31\2016-10-31\_003.xad

Created: 10/31/2016 12:02:57 PM  
Modified: 10/31/2016 12:20:10 PM

**Electropherogram Summary Continued ...**

14: 43-66-21 dDCs 1 [ QC 132 ]



**Overall Results for sample 3 : 14: 43-66-21 dDCs 1**

RNA Area:	34.8	RNA Integrity Number (RIN):	1.6 (B.02.08)
RNA Concentration:	123 pg/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: 1.60

**Fragment table for sample 3 : 14: 43-66-21 dDCs 1**

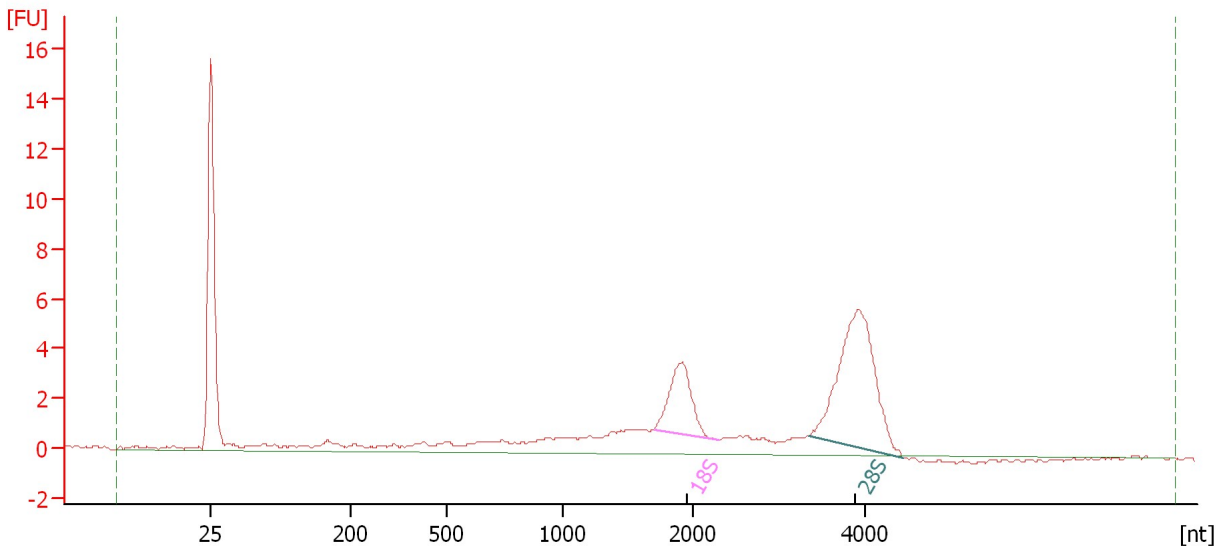
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,249	1,372	0.2	0.5

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-10-31\2016-10-31\_003.xad

Created: 10/31/2016 12:02:57 PM  
Modified: 10/31/2016 12:20:10 PM

**Electropherogram Summary Continued ...**

15: Dog#3 LCs1 [ QC 132 ]



**Overall Results for sample 4 : 15: Dog#3 LCs1**

RNA Area: 66.1 RNA Integrity Number (RIN): 8.2 (B.02.08)  
RNA Concentration: 234 µg/µl Result Flagging Color:   
rRNA Ratio [28s / 18s]: 2.7 Result Flagging Label: RIN: 8.20

**Fragment table for sample 4 : 15: Dog#3 LCs1**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,700	2,295	7.5	11.4
28S	3,343	4,453	20.1	30.4

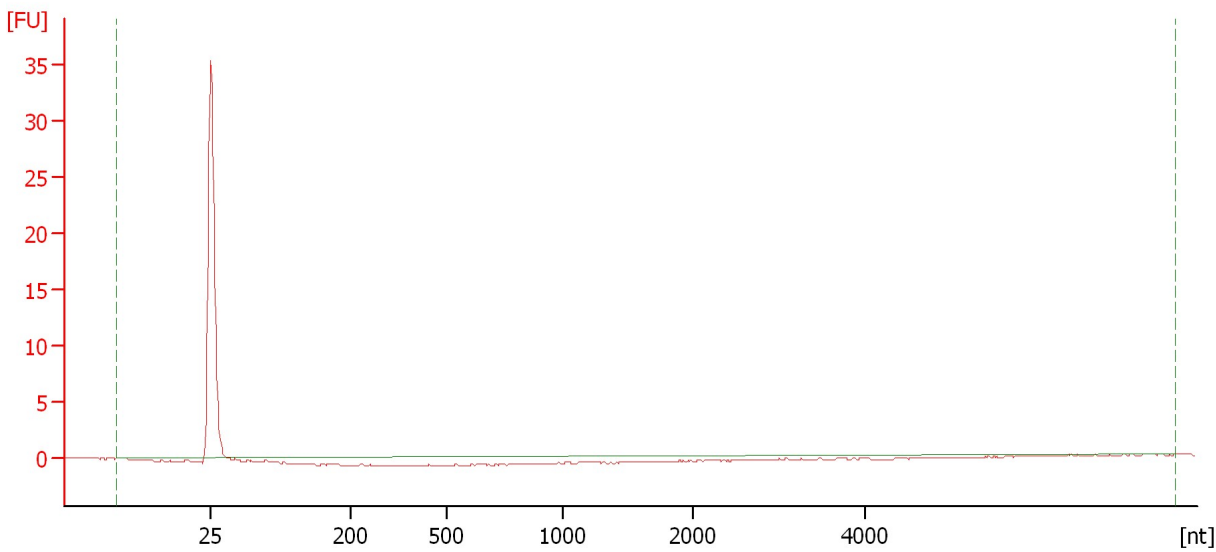


Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-10-31\2016-10-31\_003.xad

Created: 10/31/2016 12:02:57 PM  
Modified: 10/31/2016 12:20:10 PM

**Electropherogram Summary Continued ...**

16: Dog#3 dDCs1 [ QC 132 ]



**Overall Results for sample 5 : 16: Dog#3 dDCs1**

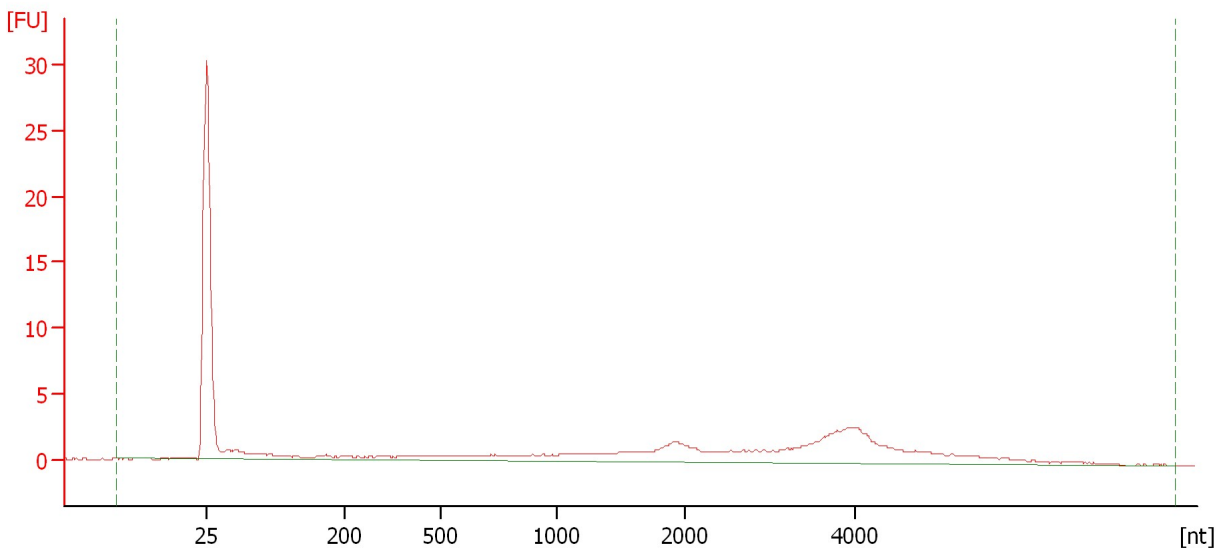
RNA Area:	0.3	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	1 pg/μl	Result Flagging Color:	<span style="background-color: #cccccc; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-10-31\2016-10-31\_003.xad

Created: 10/31/2016 12:02:57 PM  
Modified: 10/31/2016 12:20:10 PM

**Electropherogram Summary Continued ...**

17: 44-11-88 LCs1 [ QC 132 ]



**Overall Results for sample 6 : 17: 44-11-88 LCs1**

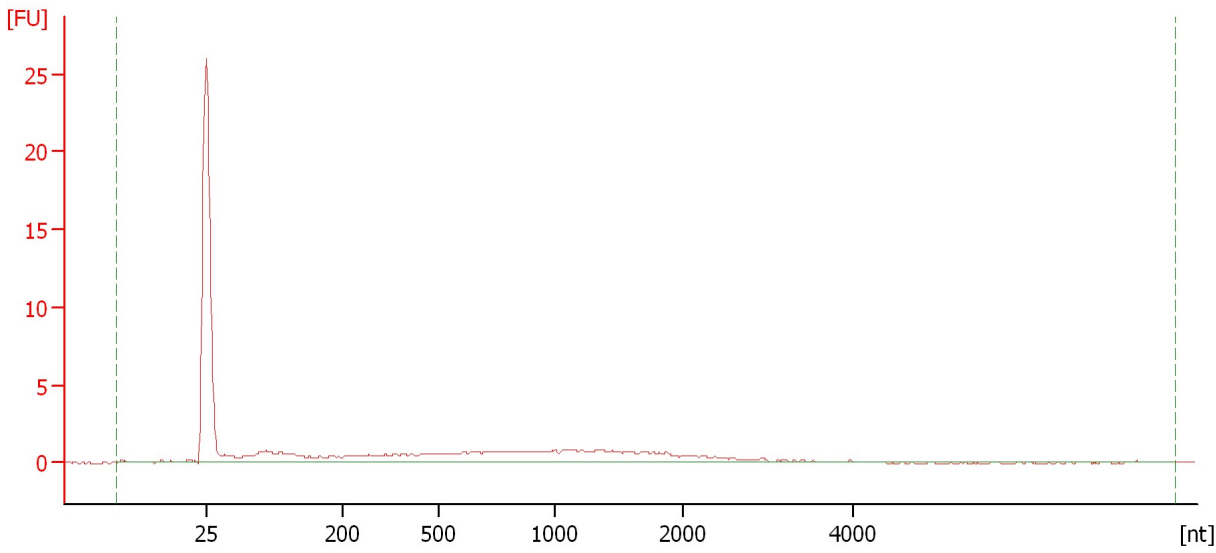
RNA Area:	64.6	RNA Integrity Number (RIN):	1 (B.02.08)
RNA Concentration:	228 µg/µl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN:1

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-10-31\2016-10-31\_003.xad

Created: 10/31/2016 12:02:57 PM  
Modified: 10/31/2016 12:20:10 PM

**Electropherogram Summary Continued ...**

18: 44-11-88 dDCs1 [ QC 132 ]



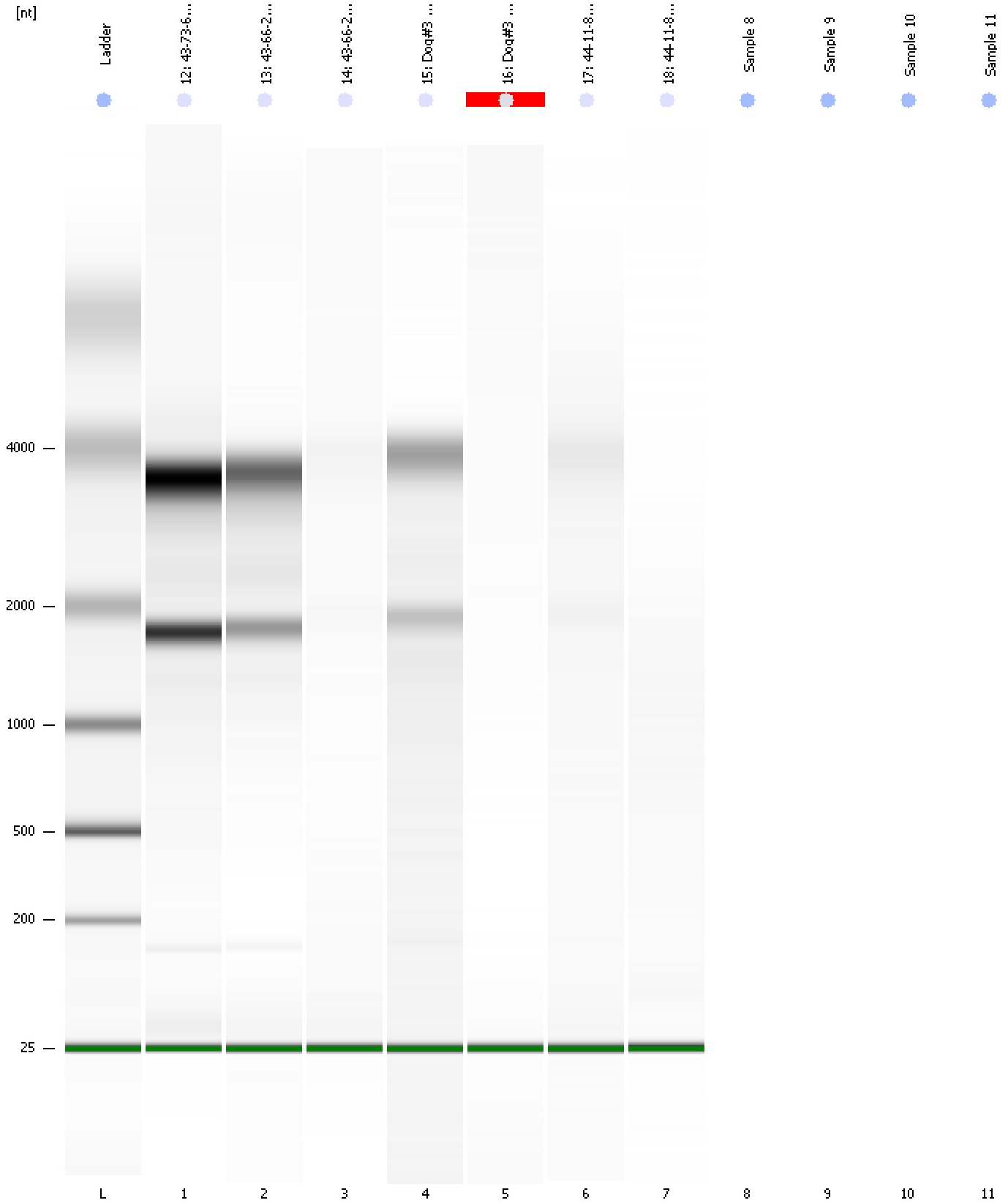
**Overall Results for sample 7 : 18: 44-11-88 dDCs1**

RNA Area:	38.0	RNA Integrity Number (RIN):	1 (B.02.08)
RNA Concentration:	134 µg/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 Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-10-31\2016-10-31\_003.xad

Created: 10/31/2016 12:02:57 PM  
Modified: 10/31/2016 12:20:10 PM

**Gel Image**



Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-10-31\2016-10-31\_003.xad

Created: 10/31/2016 12:02:57 PM  
Modified: 10/31/2016 12:20:10 PM

**Invalid Samples**

Sample 8 has not been run, no results available.

Sample 9 has not been run, no results available.

Sample 10 has not been run, no results available.

Sample 11 has not been run, no results available.

Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-10-31\2016-10-31\_003.xad

Created: 10/31/2016 12:02:57 PM  
 Modified: 10/31/2016 12:20:10 PM

**Run Logbook**

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 8)		Instrument	Run		10/31/2016 12:20:07 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\2016-10-31\2016-10-31_003.xad)		Instrument	Run		10/31/2016 12:03:03 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		10/31/2016 12:03:03 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		10/31/2016 12:03:03 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		10/31/2016 12:03:03 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		10/31/2016 12:03:03 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		10/31/2016 12:03:03 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		10/31/2016 12:03:03 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1