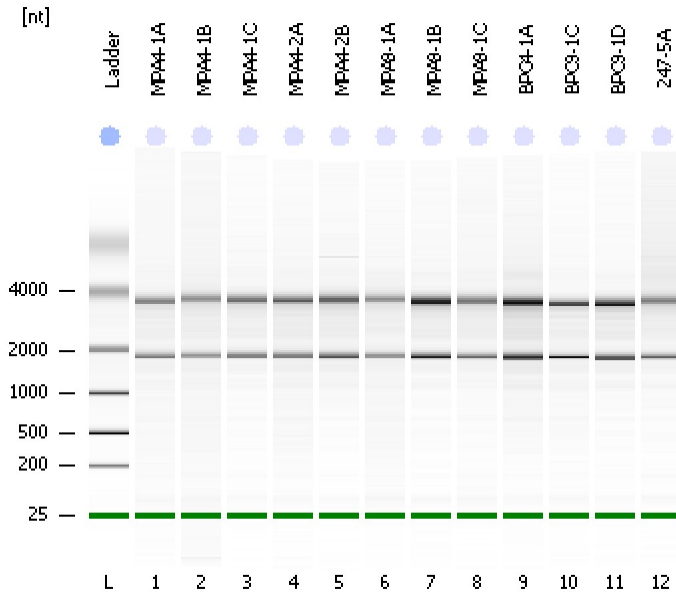


Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-08\2016-07-08\_005.xad

Created: 7/8/2016 12:39:33 PM  
Modified: 7/8/2016 1:03:15 PM

Electrophoresis File Run Summary



Instrument Information:

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

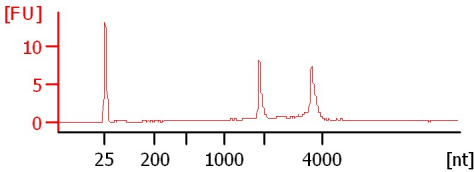
Assay Information:

Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\RNA\Eukaryote Total RNA 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.

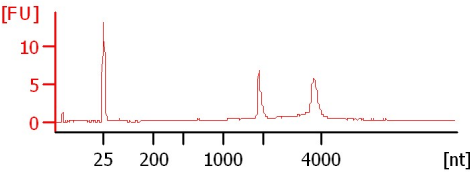
Chip Information:

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

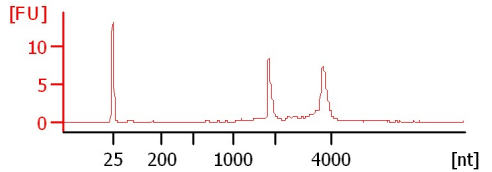
**MPA4-1A**  
Prairie Vole RNA QC  
RIN: 8.90



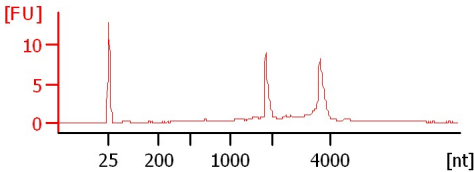
**MPA4-1B**  
Prairie Vole RNA QC  
RIN: 9



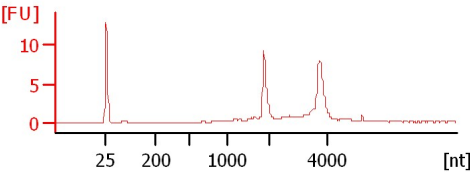
**MPA4-1C**  
Prairie Vole RNA QC  
RIN: 9.40



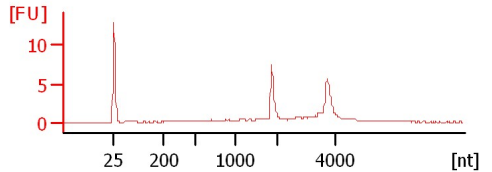
**MPA4-2A**  
Prairie Vole RNA QC  
RIN: 8.60



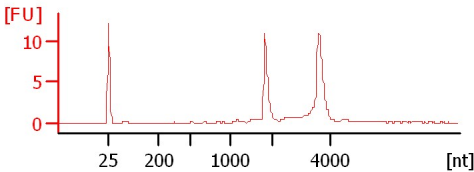
**MPA4-2B**  
Prairie Vole RNA QC  
RIN: 9.40



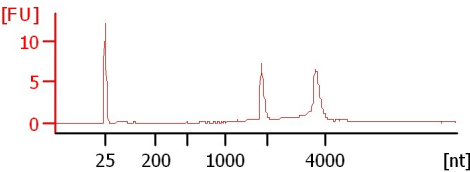
**MPA9-1A**  
Prairie Vole RNA QC  
RIN: 8.30



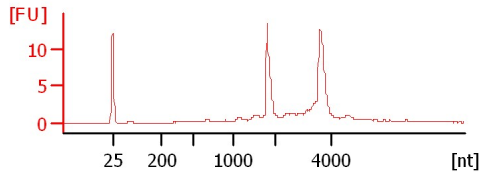
**MPA9-1B**  
Prairie Vole RNA QC  
RIN: 9.90



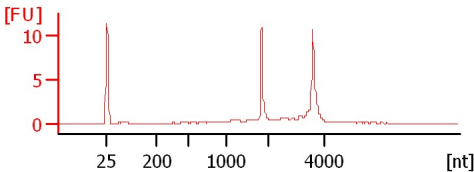
**MPA9-1C**  
Prairie Vole RNA QC  
RIN: 9.50



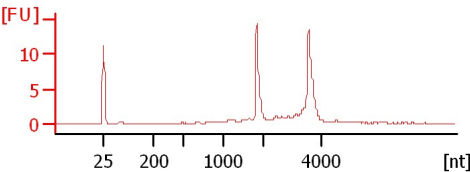
**BPC4-1A**  
Prairie Vole RNA QC  
RIN: 9.20



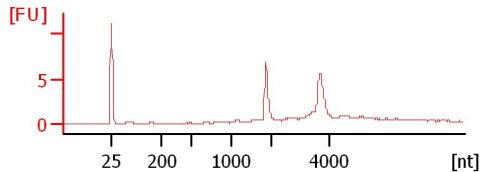
**BPC9-1C**  
Prairie Vole RNA QC  
RIN: 8.80



**BPC9-1D**  
Prairie Vole RNA QC  
RIN: 9.50



**247-5A**  
Prairie Vole RNA QC  
RIN: 9.50



Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-08\2016-07-08\_005.xad

Created: 7/8/2016 12:39:33 PM  
Modified: 7/8/2016 1:03:15 PM

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

Sample Name	Sample Comment	Status	Result Label	Result Color
MPA4-1A	Prairie Vole RNA QC	✓	RIN: 8.90	
MPA4-1B	Prairie Vole RNA QC	✓	RIN:9	
MPA4-1C	Prairie Vole RNA QC	✓	RIN: 9.40	
MPA4-2A	Prairie Vole RNA QC	✓	RIN: 8.60	
MPA4-2B	Prairie Vole RNA QC	✓	RIN: 9.40	
MPA9-1A	Prairie Vole RNA QC	✓	RIN: 8.30	
MPA9-1B	Prairie Vole RNA QC	✓	RIN: 9.90	
MPA9-1C	Prairie Vole RNA QC	✓	RIN: 9.50	
BPC4-1A	Prairie Vole RNA QC	✓	RIN: 9.20	
BPC9-1C	Prairie Vole RNA QC	✓	RIN: 8.80	
BPC9-1D	Prairie Vole RNA QC	✓	RIN: 9.50	
247-5A	Prairie Vole RNA QC	✓	RIN: 9.50	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-08\2016-07-08\_005.xad

Created: 7/8/2016 12:39:33 PM  
Modified: 7/8/2016 1:03:15 PM

**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

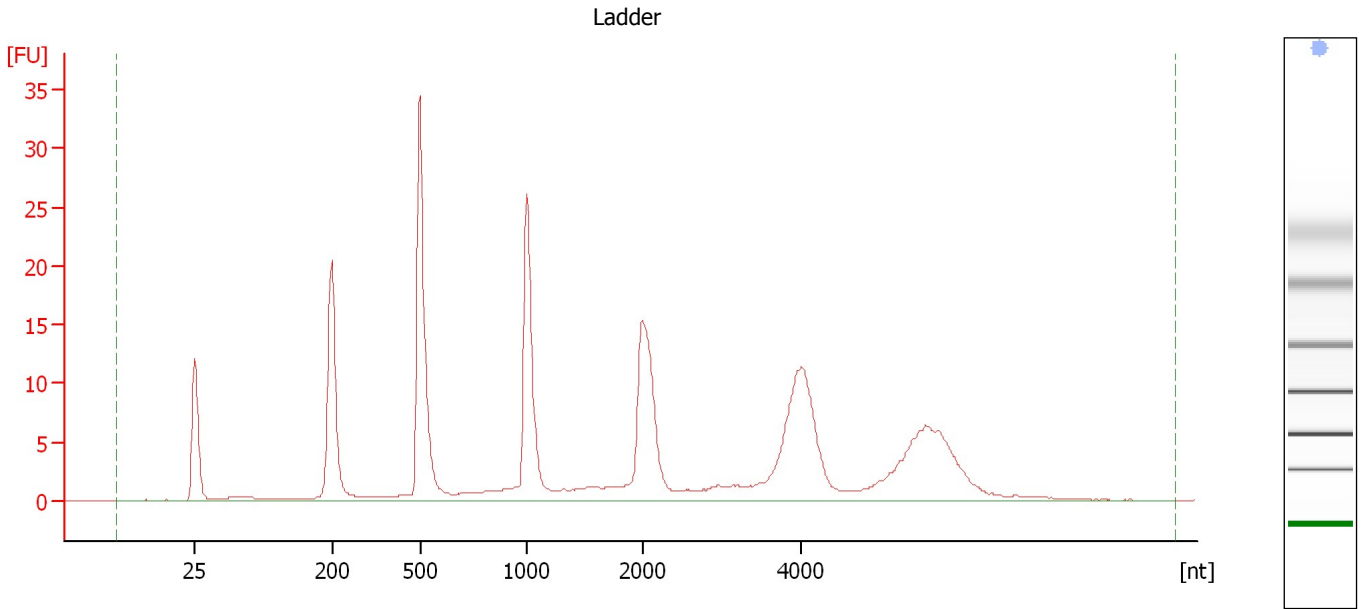
**Ladder**

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

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-08\2016-07-08\_005.xad

Created: 7/8/2016 12:39:33 PM  
Modified: 7/8/2016 1:03:15 PM

**Electropherogram Summary**



**Overall Results for Ladder**

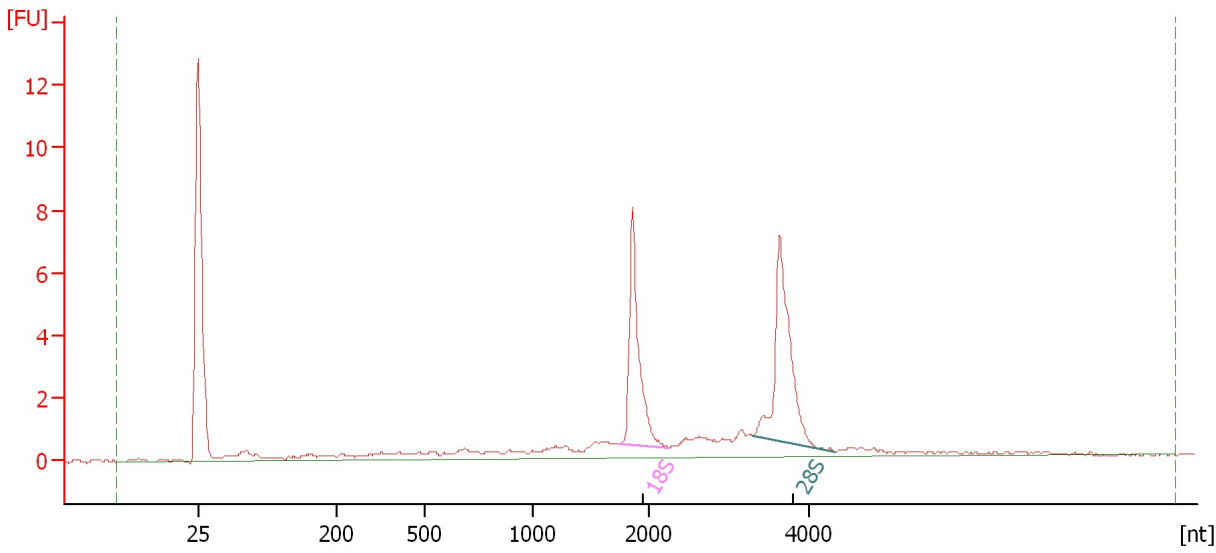
RNA Area:	237.9	Result Flagging Color:	<span style="background-color: #ADD8E6; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
RNA Concentration:	150 ng/ $\mu$ l	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-08\2016-07-08\_005.xad

Created: 7/8/2016 12:39:33 PM  
Modified: 7/8/2016 1:03:15 PM

**Electropherogram Summary Continued ...**

MPA4-1A [ Prairie Vole RNA QC ]



**Overall Results for sample 1 : MPA4-1A**

RNA Area:	43.6	RNA Integrity Number (RIN):	8.9 (B.02.08)
RNA Concentration:	27 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]:	1.2	Result Flagging Label:	RIN: 8.90

**Fragment table for sample 1 : MPA4-1A**

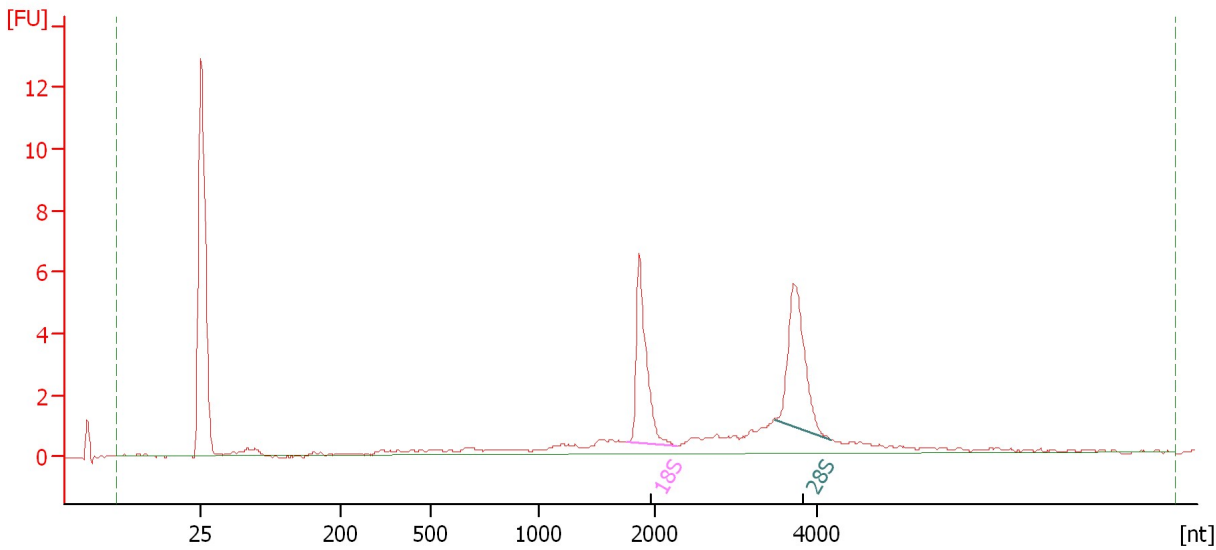
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,735	2,257	8.5	19.6
28S	3,297	4,324	10.6	24.3

Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-08\2016-07-08\_005.xad

Created: 7/8/2016 12:39:33 PM  
 Modified: 7/8/2016 1:03:15 PM

**Electropherogram Summary Continued ...**

MPA4-1B [ Prairie Vole RNA QC ]



**Overall Results for sample 2 : MPA4-1B**

RNA Area:	38.4	RNA Integrity Number (RIN):	9 (B.02.08)
RNA Concentration:	24 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]:	1.1	Result Flagging Label:	RIN:9

**Fragment table for sample 2 : MPA4-1B**

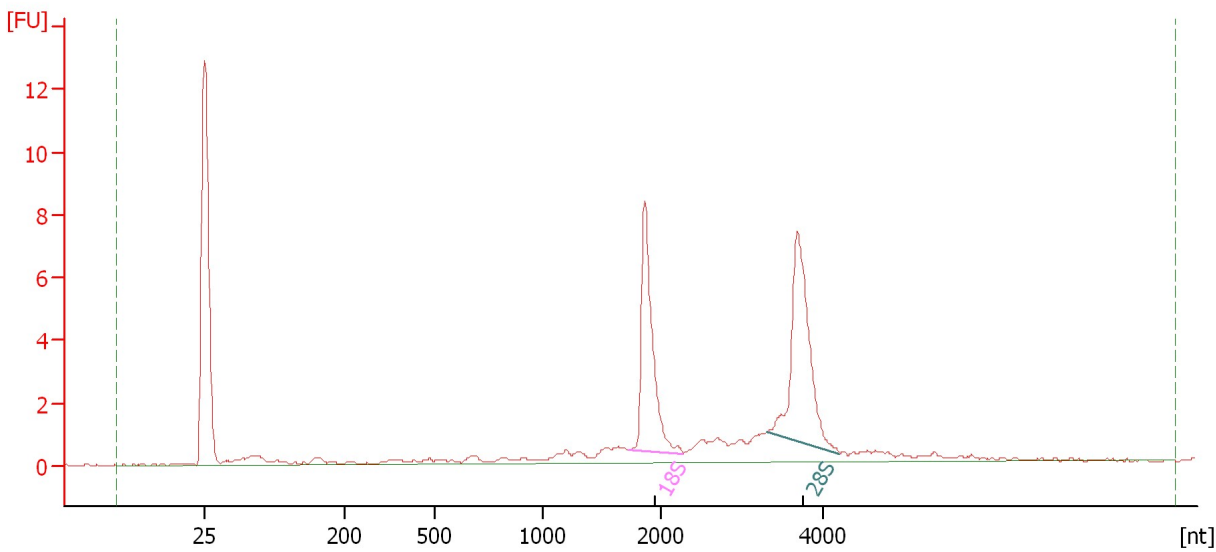
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,758	2,272	7.5	19.5
28S	3,491	4,193	8.1	21.0

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-08\2016-07-08\_005.xad

Created: 7/8/2016 12:39:33 PM  
Modified: 7/8/2016 1:03:15 PM

**Electropherogram Summary Continued ...**

MPA4-1C [ Prairie Vole RNA QC ]



**Overall Results for sample 3 : MPA4-1C**

RNA Area:	46.5	RNA Integrity Number (RIN):	9.4 (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]:	1.2	Result Flagging Label:	RIN: 9.40

**Fragment table for sample 3 : MPA4-1C**

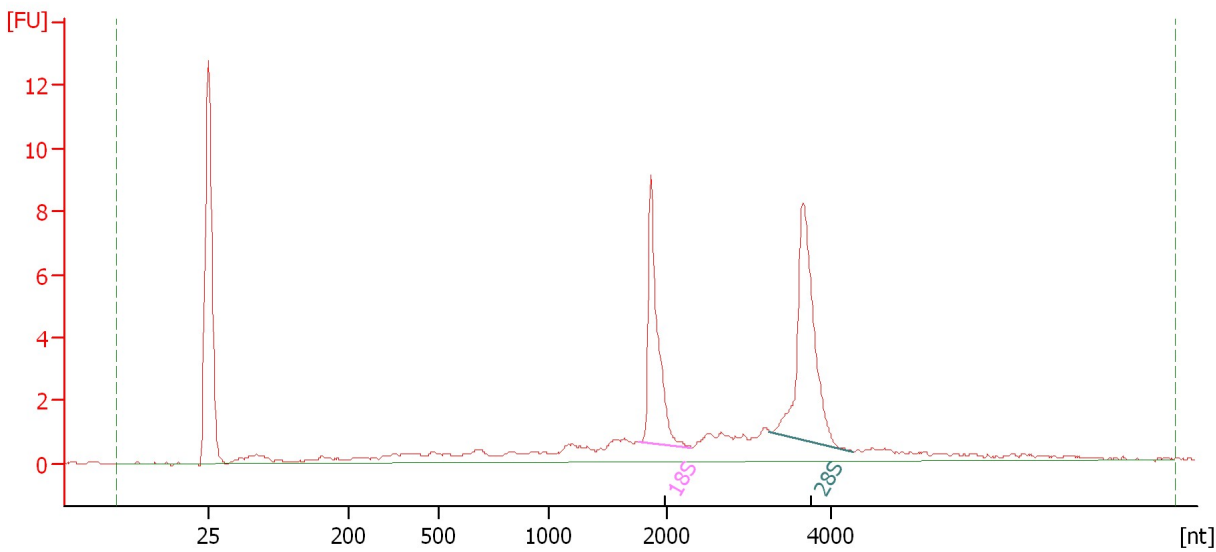
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,735	2,274	10.1	21.8
28S	3,314	4,196	12.5	26.9

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-08\2016-07-08\_005.xad

Created: 7/8/2016 12:39:33 PM  
Modified: 7/8/2016 1:03:15 PM

**Electropherogram Summary Continued ...**

MPA4-2A [ Prairie Vole RNA QC ]



**Overall Results for sample 4 : MPA4-2A**

RNA Area: 55.1                      RNA Integrity Number (RIN): 8.6 (B.02.08)  
RNA Concentration: 35 ng/μl              Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.3              Result Flagging Label: RIN: 8.60

**Fragment table for sample 4 : MPA4-2A**

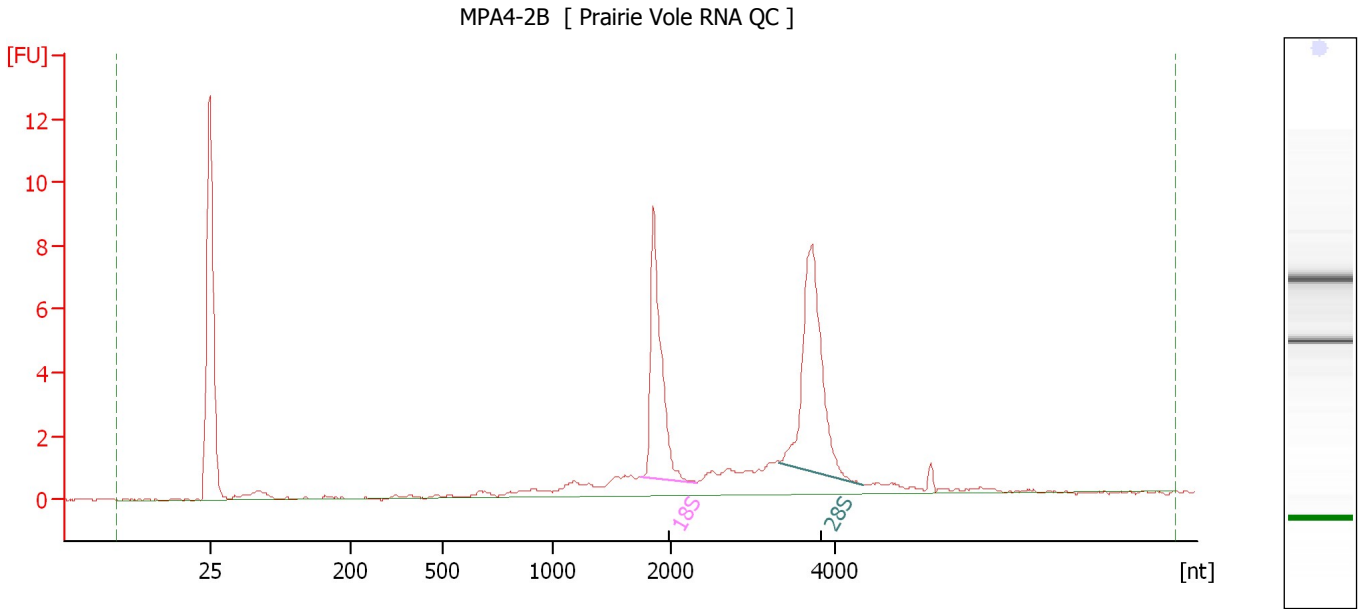
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,766	2,302	9.6	17.4
28S	3,257	4,278	12.8	23.2



Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-08\2016-07-08\_005.xad

Created: 7/8/2016 12:39:33 PM  
 Modified: 7/8/2016 1:03:15 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : MPA4-2B**

RNA Area:	48.1	RNA Integrity Number (RIN):	9.4 (B.02.08)
RNA Concentration:	30 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]:	1.3	Result Flagging Label:	RIN: 9.40

**Fragment table for sample 5 : MPA4-2B**

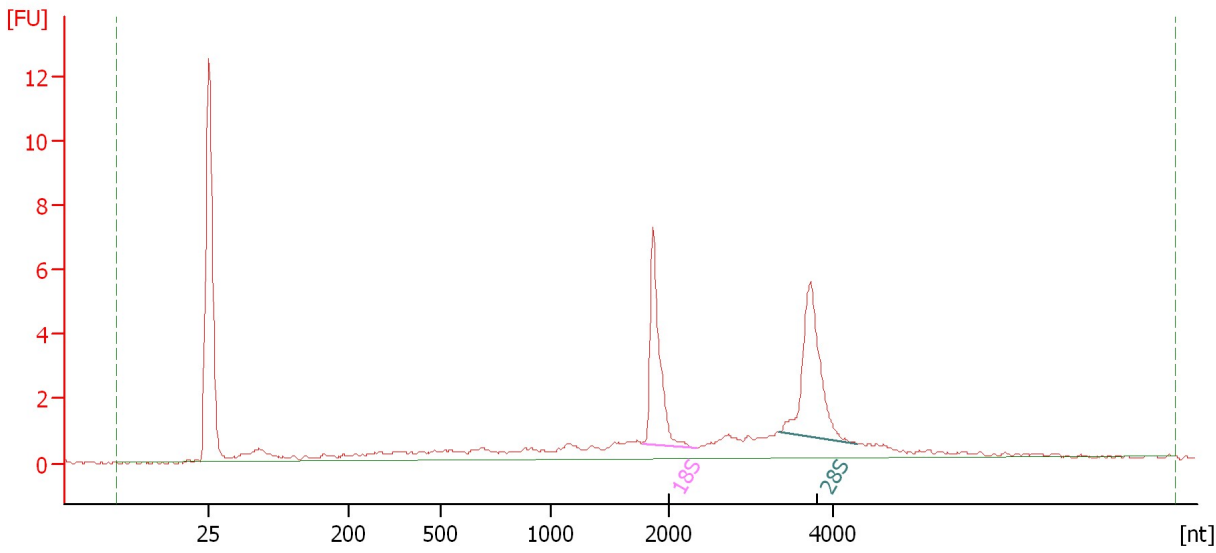
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,742	2,316	10.8	22.3
28S	3,320	4,336	14.2	29.4

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-08\2016-07-08\_005.xad

Created: 7/8/2016 12:39:33 PM  
Modified: 7/8/2016 1:03:15 PM

**Electropherogram Summary Continued ...**

MPA9-1A [ Prairie Vole RNA QC ]



**Overall Results for sample 6 : MPA9-1A**

RNA Area:	46.6	RNA Integrity Number (RIN):	8.3 (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]:	1.2	Result Flagging Label:	RIN: 8.30

**Fragment table for sample 6 : MPA9-1A**

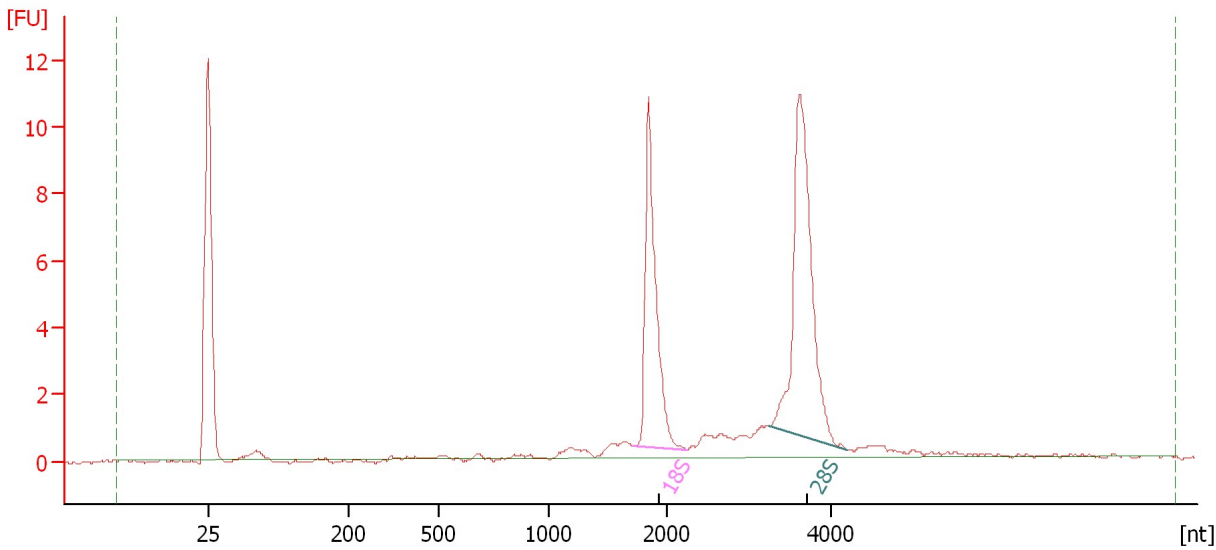
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,776	2,329	7.6	16.4
28S	3,334	4,287	8.8	18.8

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-08\2016-07-08\_005.xad

Created: 7/8/2016 12:39:33 PM  
Modified: 7/8/2016 1:03:15 PM

**Electropherogram Summary Continued ...**

MPA9-1B [ Prairie Vole RNA QC ]



**Overall Results for sample 7 : MPA9-1B**

RNA Area:	51.1	RNA Integrity Number (RIN):	9.9 (B.02.08)
RNA Concentration:	32 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]:	1.5	Result Flagging Label:	RIN: 9.90

**Fragment table for sample 7 : MPA9-1B**

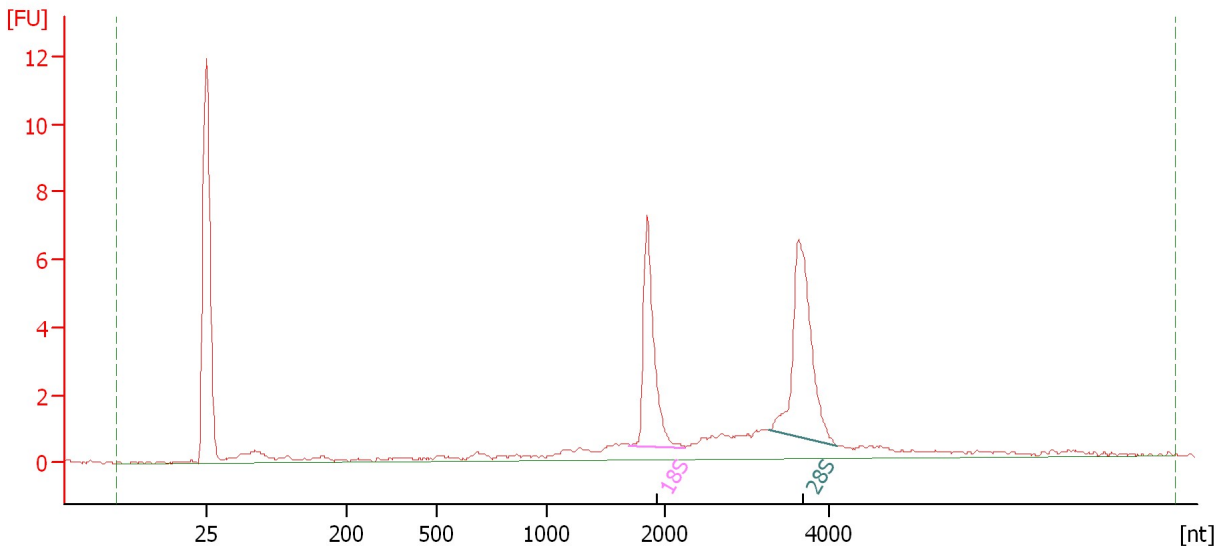
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,703	2,237	13.0	25.5
28S	3,257	4,199	19.4	37.9

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-08\2016-07-08\_005.xad

Created: 7/8/2016 12:39:33 PM  
Modified: 7/8/2016 1:03:15 PM

**Electropherogram Summary Continued ...**

MPA9-1C [ Prairie Vole RNA QC ]



**Overall Results for sample 8 : MPA9-1C**

RNA Area:	43.4	RNA Integrity Number (RIN):	9.5 (B.02.08)
RNA Concentration:	27 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]:	1.4	Result Flagging Label:	RIN: 9.50

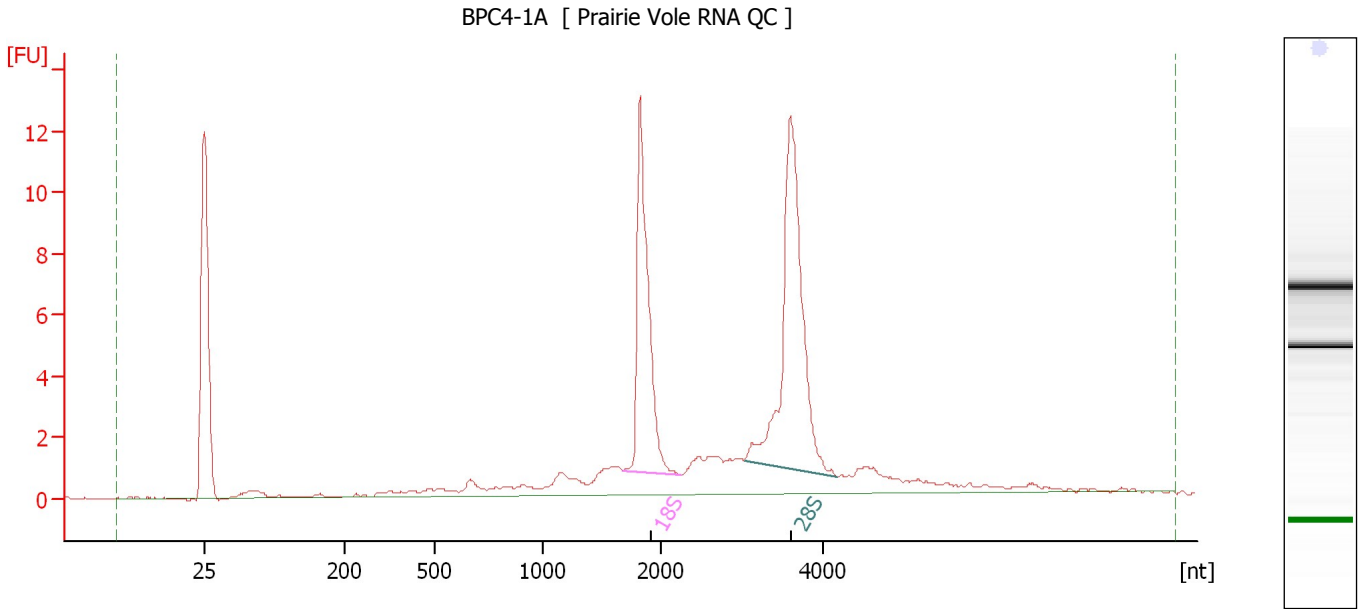
**Fragment table for sample 8 : MPA9-1C**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,701	2,249	8.3	19.1
28S	3,285	4,111	11.3	26.1

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-08\2016-07-08\_005.xad

Created: 7/8/2016 12:39:33 PM  
Modified: 7/8/2016 1:03:15 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : BPC4-1A**

RNA Area: 76.9                      RNA Integrity Number (RIN): 9.2 (B.02.08)  
RNA Concentration: 48 ng/μl              Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.5              Result Flagging Label: RIN: 9.20

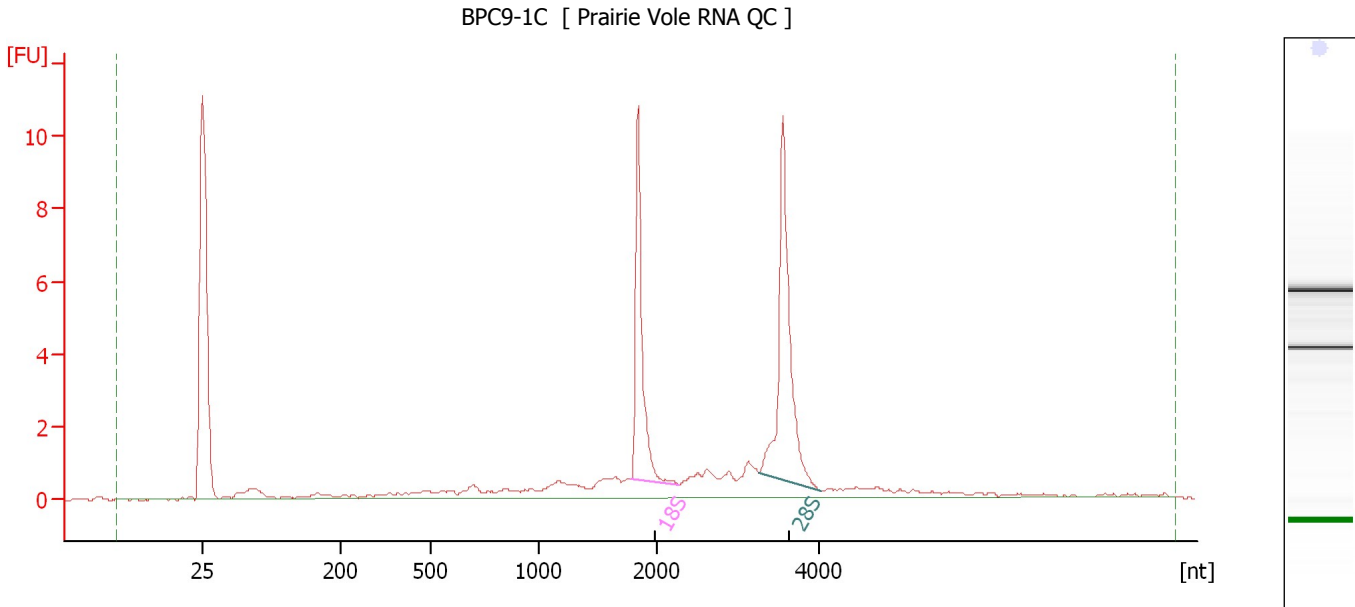
**Fragment table for sample 9 : BPC4-1A**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,680	2,235	16.2	21.0
28S	3,025	4,170	23.5	30.6

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-08\2016-07-08\_005.xad

Created: 7/8/2016 12:39:33 PM  
Modified: 7/8/2016 1:03:15 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : BPC9-1C**

RNA Area: 42.3                      RNA Integrity Number (RIN): 8.8 (B.02.08)  
RNA Concentration: 27 ng/μl              Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.4              Result Flagging Label: RIN: 8.80

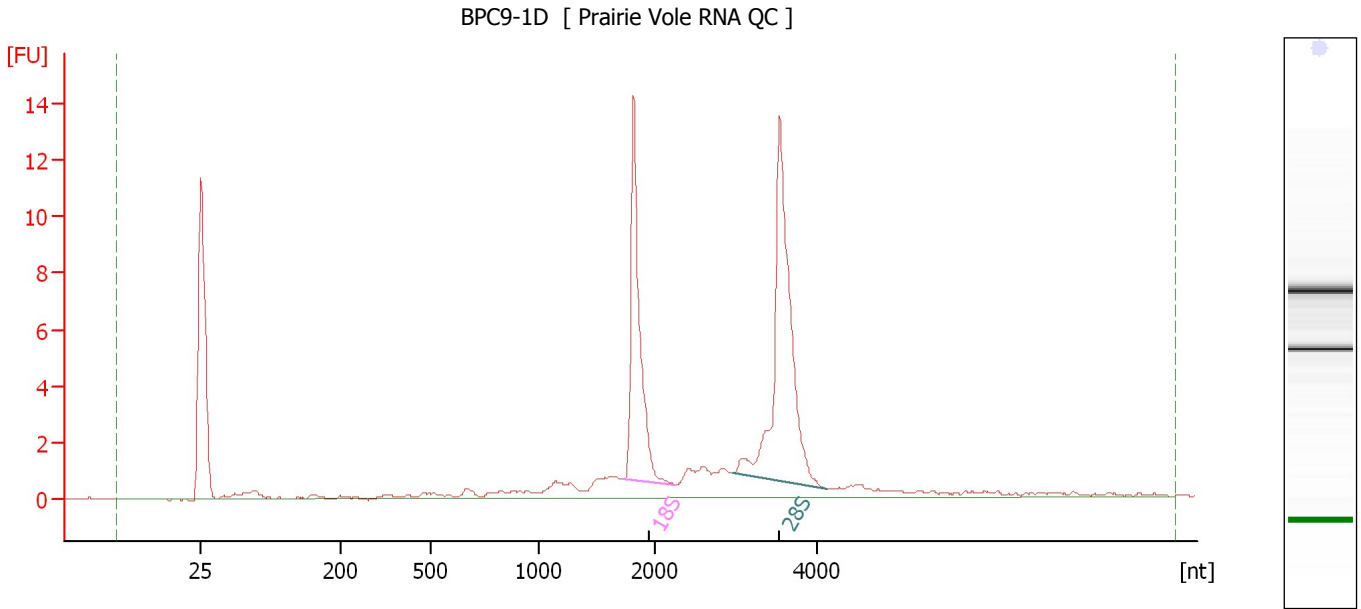
**Fragment table for sample 10 : BPC9-1C**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,778	2,273	8.3	19.7
28S	3,251	4,018	11.3	26.8

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-08\2016-07-08\_005.xad

Created: 7/8/2016 12:39:33 PM  
Modified: 7/8/2016 1:03:15 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : BPC9-1D**

RNA Area: 63.1 RNA Integrity Number (RIN): 9.5 (B.02.08)  
RNA Concentration: 40 ng/μl Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.5 Result Flagging Label: RIN: 9.50

**Fragment table for sample 11 : BPC9-1D**

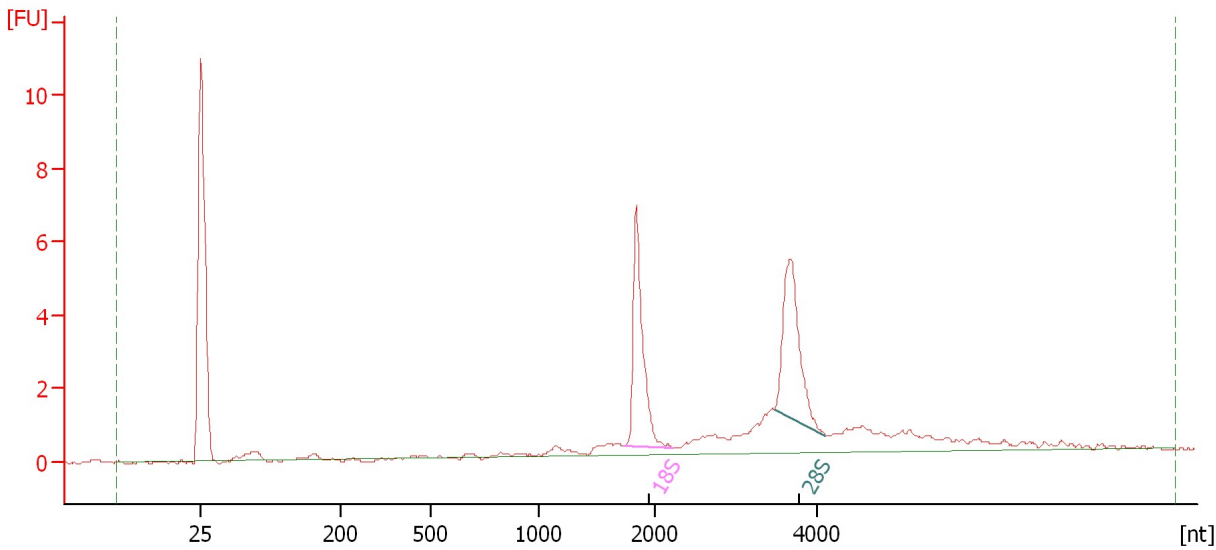
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,730	2,246	14.4	22.8
28S	2,974	4,127	22.0	34.9

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-08\2016-07-08\_005.xad

Created: 7/8/2016 12:39:33 PM  
Modified: 7/8/2016 1:03:15 PM

**Electropherogram Summary Continued ...**

247-5A [ Prairie Vole RNA QC ]



**Overall Results for sample 12 : 247-5A**

RNA Area: 37.2                      RNA Integrity Number (RIN): 9.5 (B.02.08)  
RNA Concentration: 23 ng/µl              Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.0              Result Flagging Label: RIN: 9.50

**Fragment table for sample 12 : 247-5A**

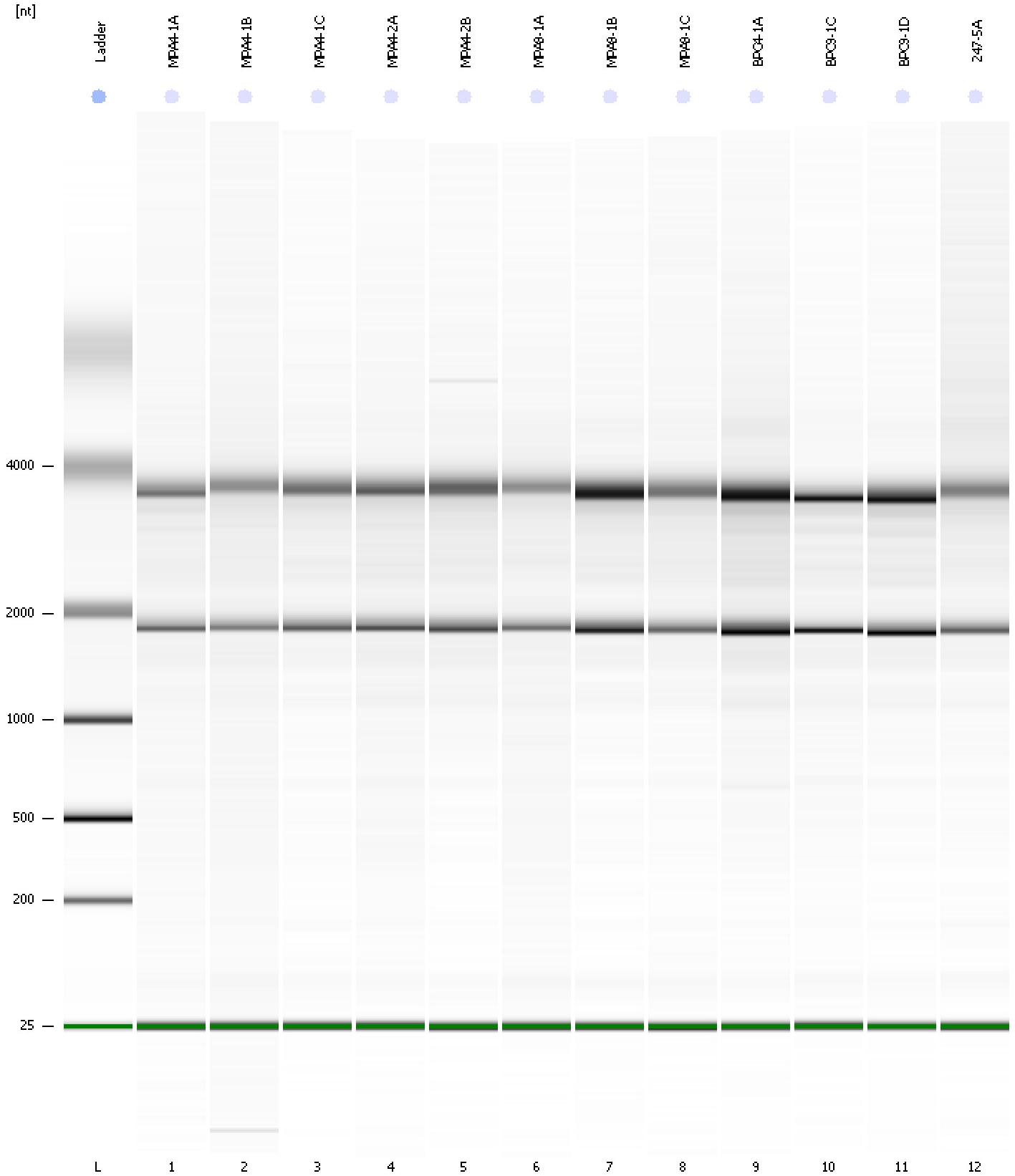
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,740	2,219	7.7	20.6
28S	3,478	4,114	7.5	20.2



Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-08\2016-07-08\_005.xad

Created: 7/8/2016 12:39:33 PM  
Modified: 7/8/2016 1:03:15 PM

**Gel Image**

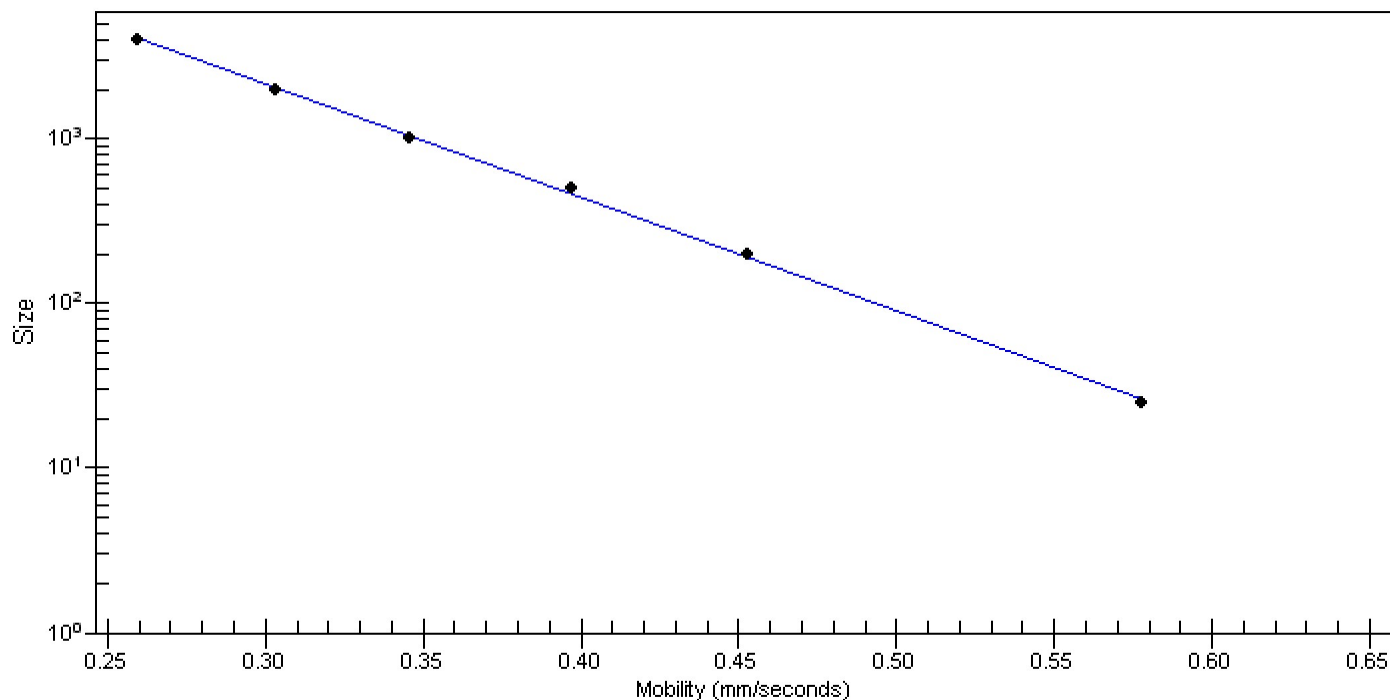


Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-08\2016-07-08\_005.xad

Created: 7/8/2016 12:39:33 PM  
Modified: 7/8/2016 1:03:15 PM

**Curves**

**Standard Curve**



Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-08\2016-07-08\_005.xad

Created: 7/8/2016 12:39:33 PM  
 Modified: 7/8/2016 1:03:15 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		7/8/2016 1:03:14 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\2016-07-08\2016-07-08_005.xad)		Instrument	Run		7/8/2016 12:39:33 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		7/8/2016 12:39:33 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		7/8/2016 12:39:33 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		7/8/2016 12:39:33 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		7/8/2016 12:39:33 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		7/8/2016 12:39:33 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		7/8/2016 12:39:33 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1