

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2017-01-10\2017-01-10_003.xad

Created: 1/10/2017 3:56:22 PM
Modified: 1/10/2017 4:19:15 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 Pico Series II.xsy

Assay Class: Eukaryote Total RNA Pico

Version: 2.6

Assay Comments: Total RNA Analysis pg sensitivity (Eukaryote)

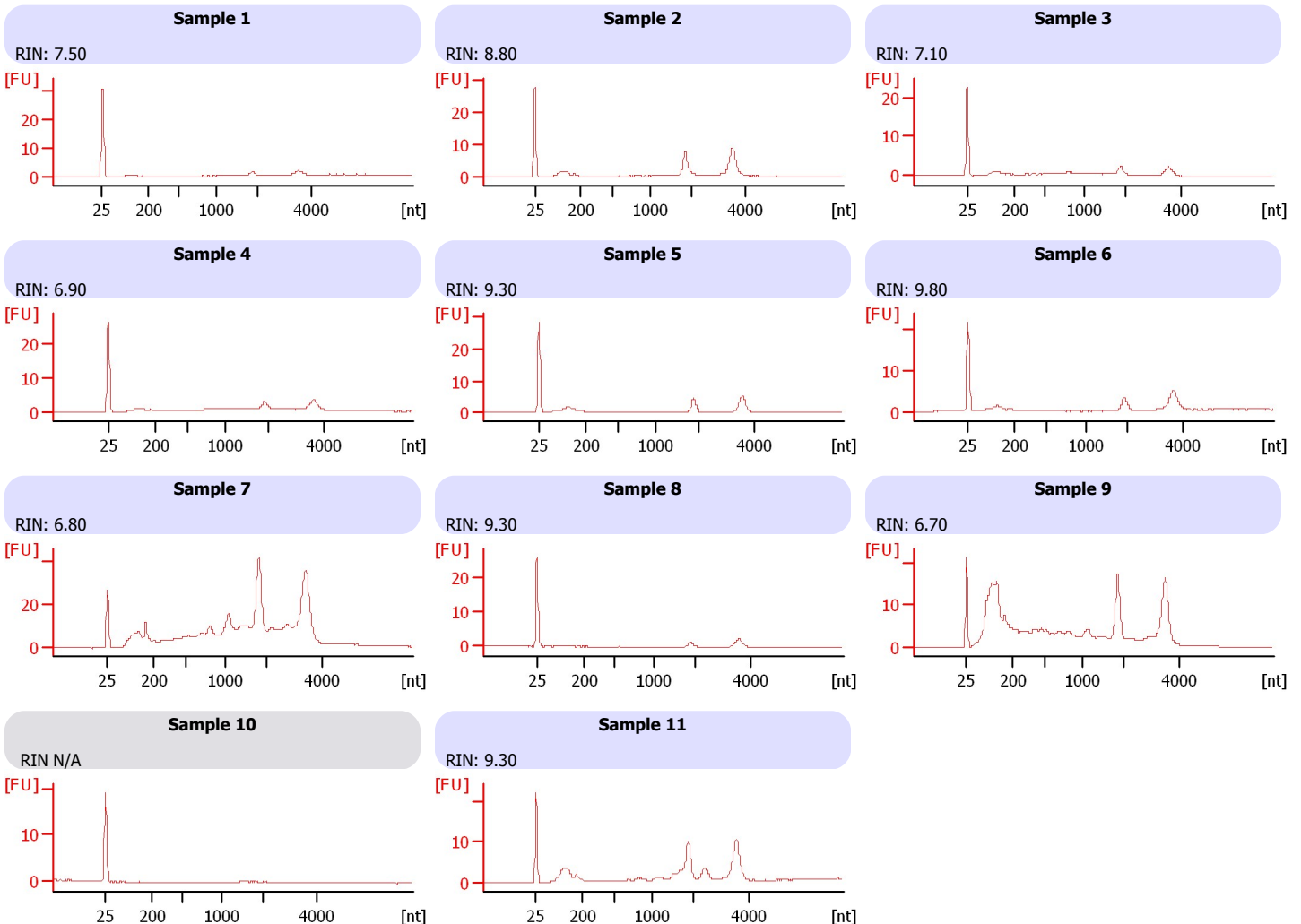
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Chip Information:

Chip Lot #:

Reagent Kit Lot #:

Chip Comments:



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Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
Sample 1		✓	RIN: 7.50	
Sample 2		✓	RIN: 8.80	
Sample 3		✓	RIN: 7.10	
Sample 4		✓	RIN: 6.90	
Sample 5		✓	RIN: 9.30	
Sample 6		✓	RIN: 9.80	
Sample 7		✓	RIN: 6.80	
Sample 8		✓	RIN: 9.30	
Sample 9		✓	RIN: 6.70	
Sample 10		✓	RIN N/A	
Sample 11		✓	RIN: 9.30	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

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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/ μ l] : 1000
Lower Marker Concentration [pg/ μ l] : 0
Upper Marker Concentration [pg/ μ 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

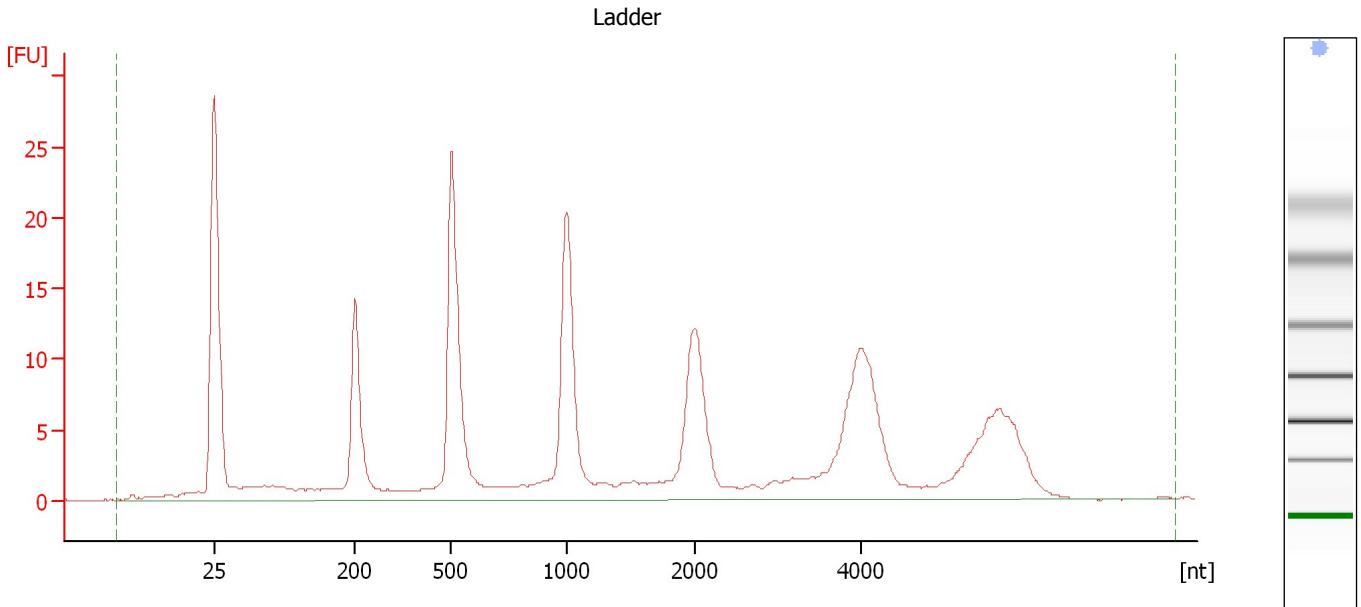
Ladder

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

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Electropherogram Summary



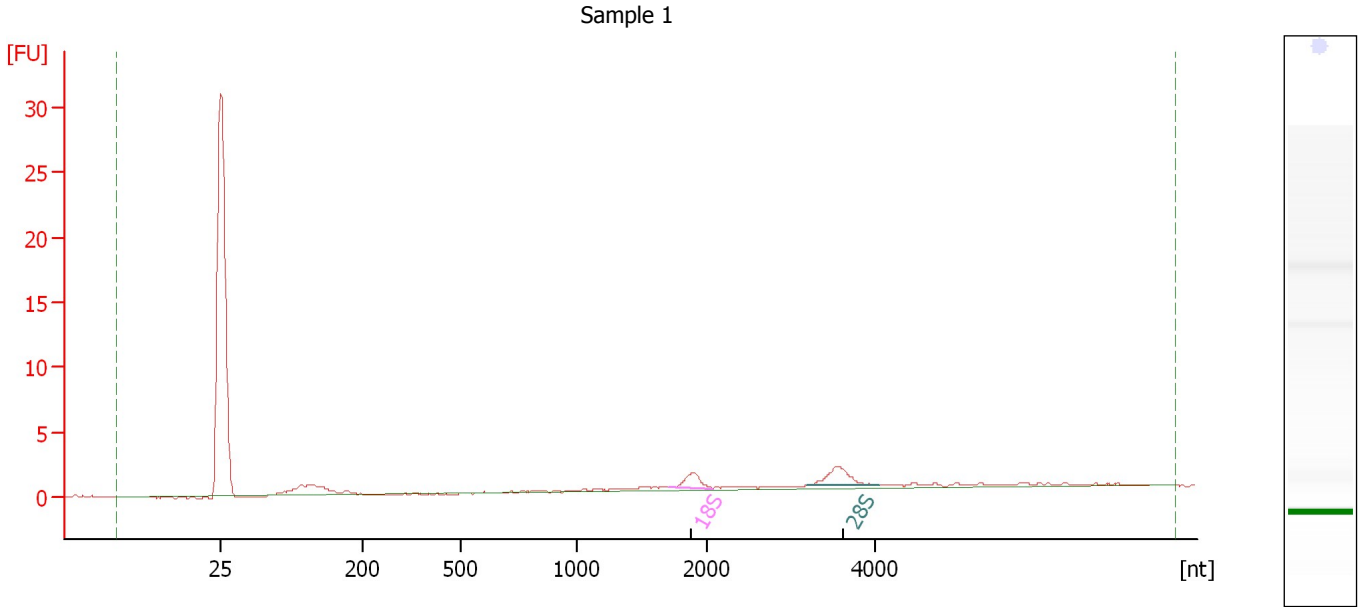
Overall Results for Ladder

RNA Area:	254.1	Result Flagging Color:	
RNA Concentration:	1,000 pg/μl	Result Flagging Label:	All Other Samples

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Electropherogram Summary Continued ...



Overall Results for sample 1 : Sample 1

RNA Area:	24.2	RNA Integrity Number (RIN):	7.5 (B.02.08)
RNA Concentration:	95 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.6	Result Flagging Label:	RIN: 7.50

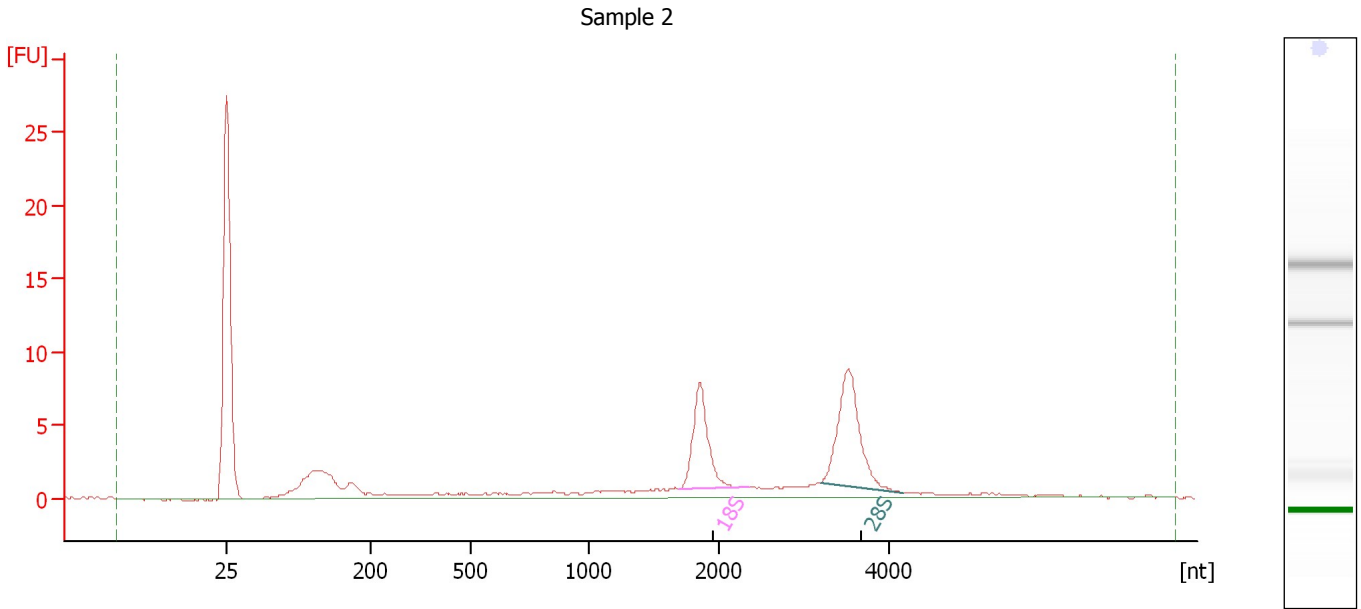
Fragment table for sample 1 : Sample 1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,706	2,055	2.1	8.5
28S	3,190	4,056	3.4	14.0

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Electropherogram Summary Continued ...



Overall Results for sample 2 : Sample 2

RNA Area:	74.7	RNA Integrity Number (RIN):	8.8 (B.02.08)
RNA Concentration:	294 µg/µl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.4	Result Flagging Label:	RIN: 8.80

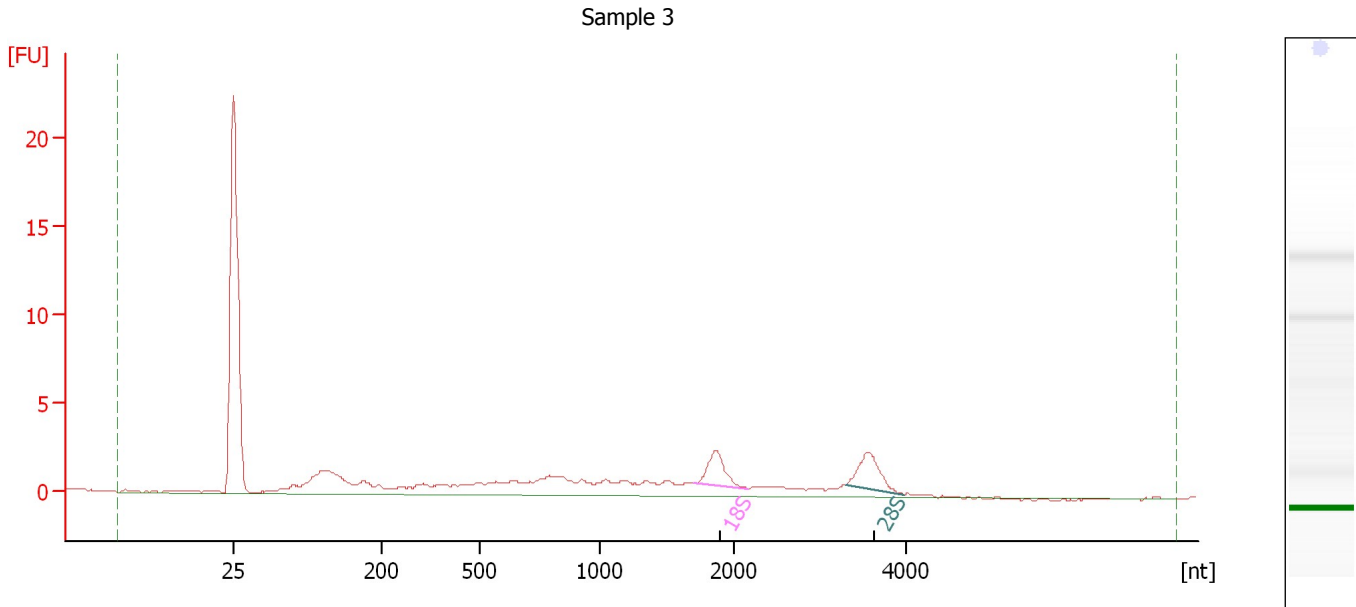
Fragment table for sample 2 : Sample 2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,689	2,337	12.7	17.0
28S	3,180	4,149	17.7	23.7

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Electropherogram Summary Continued ...



Overall Results for sample 3 : Sample 3

RNA Area:	55.5	RNA Integrity Number (RIN):	7.1 (B.02.08)
RNA Concentration:	218 µg/µl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.1	Result Flagging Label:	RIN: 7.10

Fragment table for sample 3 : Sample 3

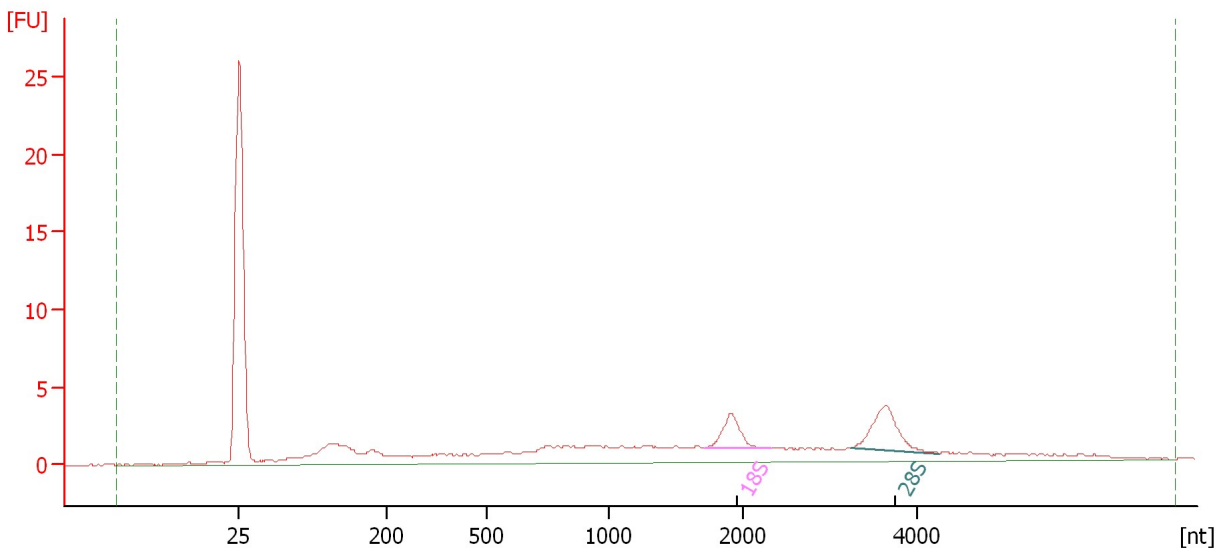
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,704	2,163	3.8	6.9
28S	3,320	3,992	4.2	7.6

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Electropherogram Summary Continued ...

Sample 4



Overall Results for sample 4 : Sample 4

RNA Area:	75.9	RNA Integrity Number (RIN):	6.9 (B.02.08)
RNA Concentration:	299 µg/µl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.7	Result Flagging Label:	RIN: 6.90

Fragment table for sample 4 : Sample 4

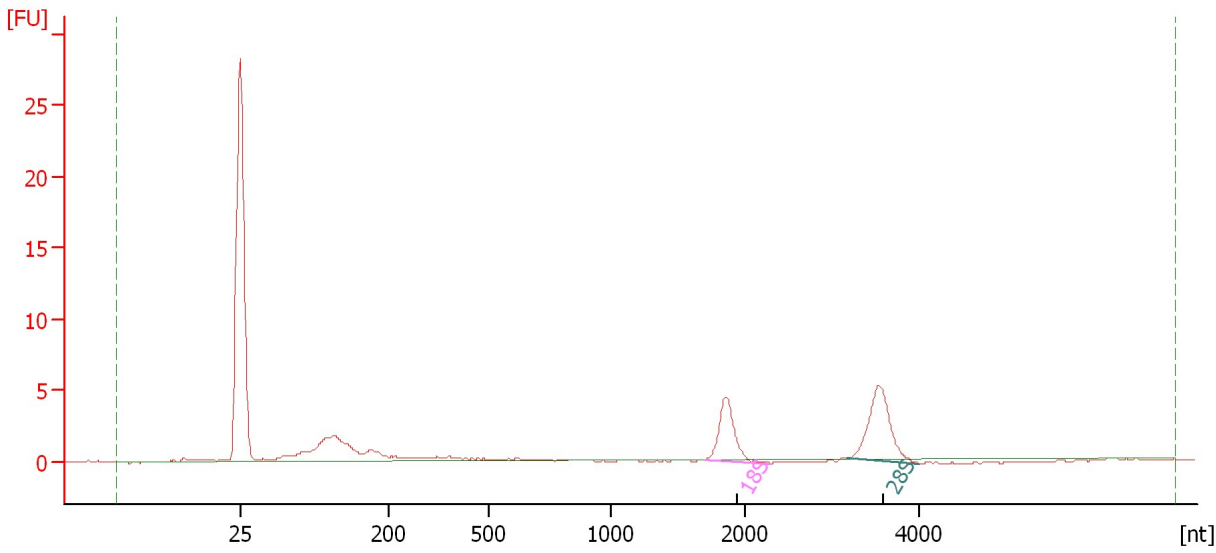
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,717	2,326	4.4	5.8
28S	3,249	4,259	7.3	9.7

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Electropherogram Summary Continued ...

Sample 5



Overall Results for sample 5 : Sample 5

RNA Area:	41.0	RNA Integrity Number (RIN):	9.3 (B.02.08)
RNA Concentration:	161 µg/µl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.5	Result Flagging Label:	RIN: 9.30

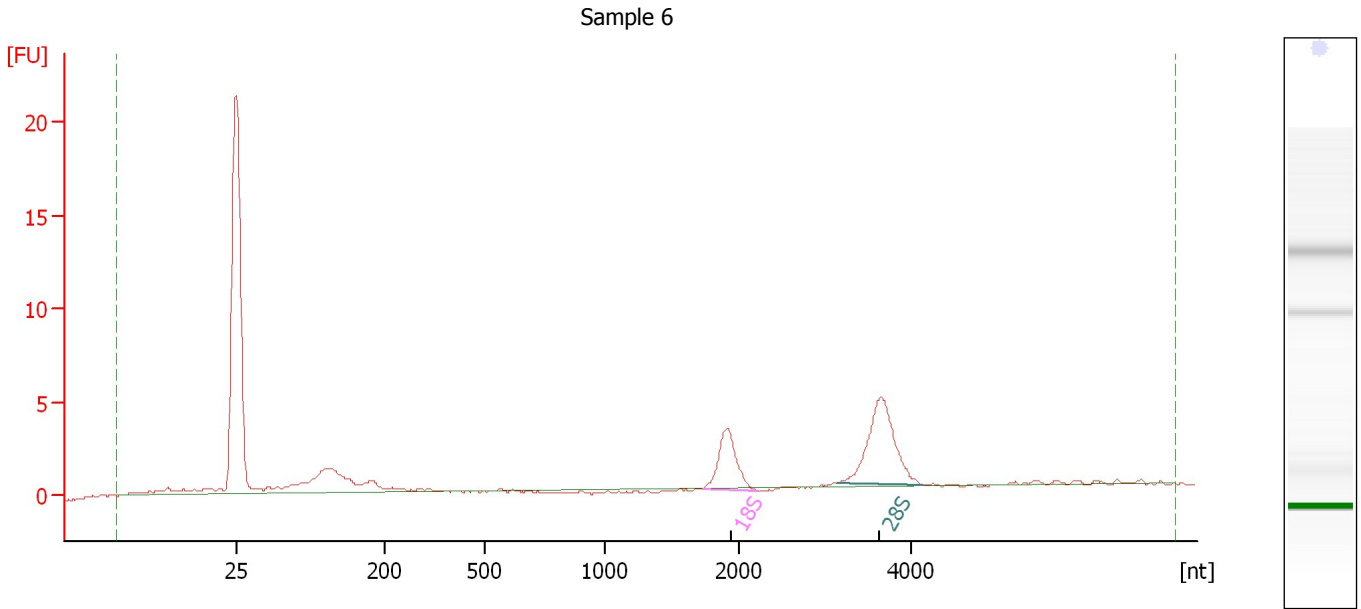
Fragment table for sample 5 : Sample 5

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,702	2,301	7.6	18.6
28S	3,186	4,009	11.1	27.1

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Electropherogram Summary Continued ...



Overall Results for sample 6 : Sample 6

RNA Area:	40.6	RNA Integrity Number (RIN):	9.8 (B.02.08)
RNA Concentration:	160 µg/µl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.8	Result Flagging Label:	RIN: 9.80

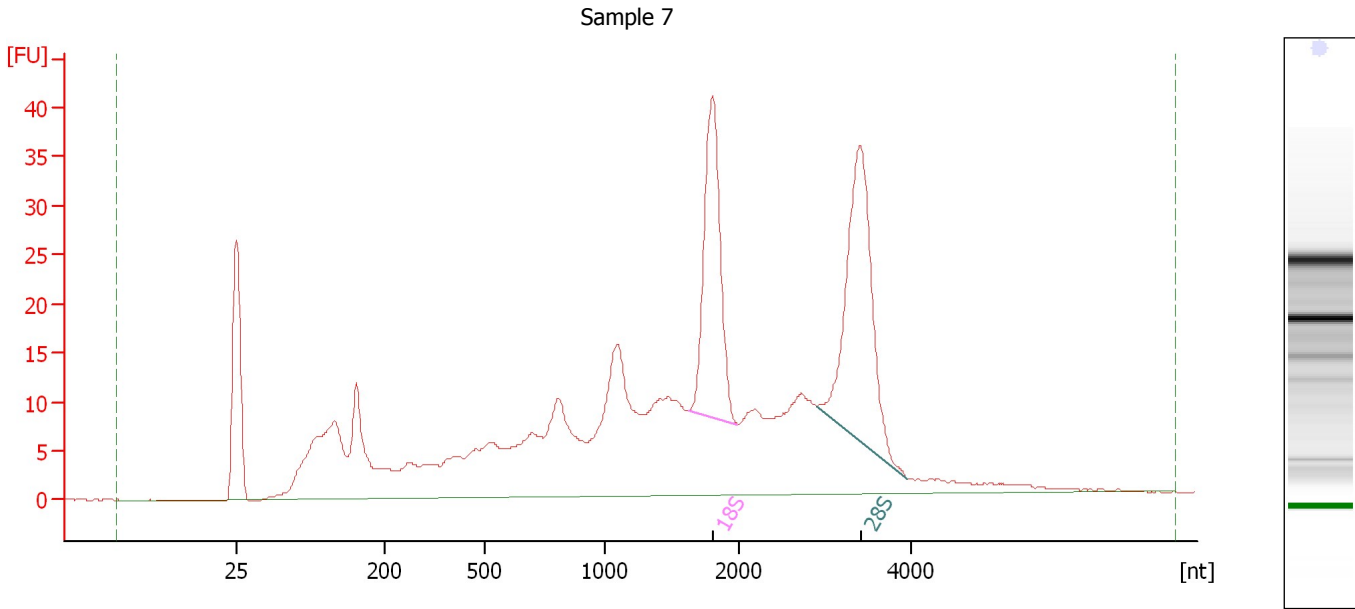
Fragment table for sample 6 : Sample 6

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,731	2,239	6.5	16.1
28S	3,141	4,143	12.0	29.6

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Electropherogram Summary Continued ...



Overall Results for sample 7 : Sample 7

RNA Area:	599.9	RNA Integrity Number (RIN):	6.8 (B.02.08)
RNA Concentration:	2,361 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.2	Result Flagging Label:	RIN: 6.80

Fragment table for sample 7 : Sample 7

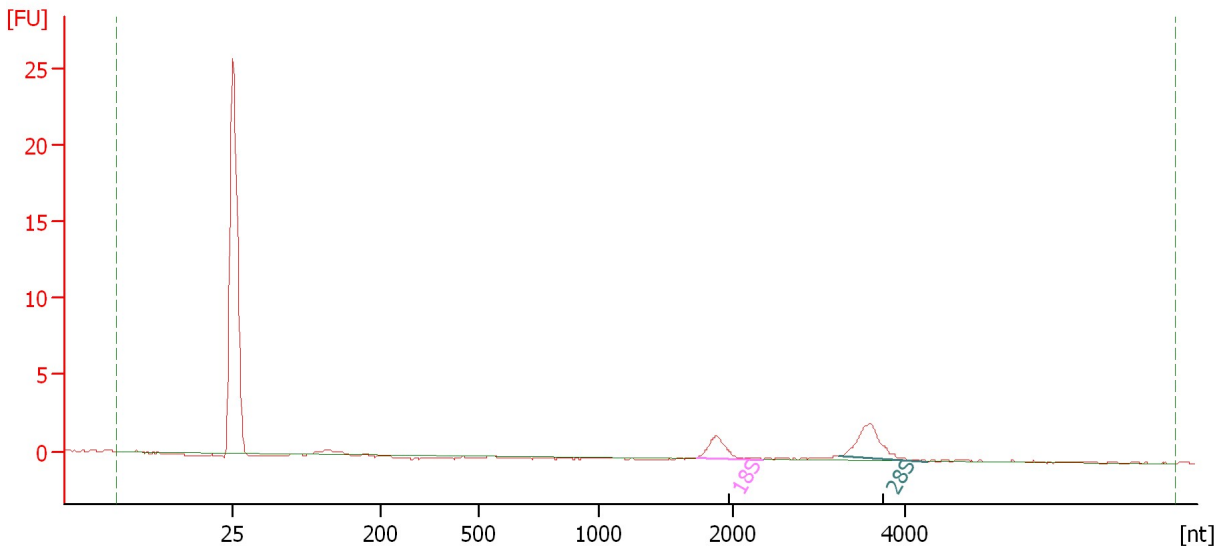
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,635	1,994	60.4	10.1
28S	2,919	3,945	75.1	12.5

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Electropherogram Summary Continued ...

Sample 8



Overall Results for sample 8 : Sample 8

RNA Area: 10.0 RNA Integrity Number (RIN): 9.3 (B.02.08)
RNA Concentration: 40 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.8 Result Flagging Label: RIN: 9.30

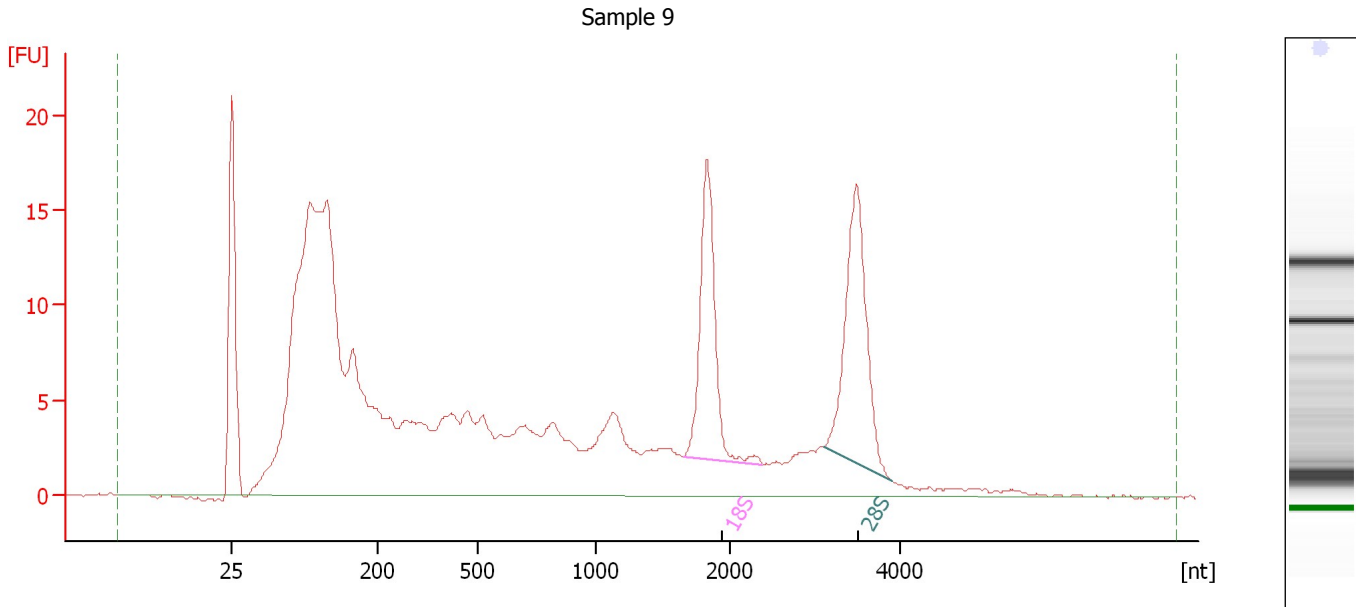
Fragment table for sample 8 : Sample 8

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,736	2,350	2.9	29.2
28S	3,245	4,278	5.1	51.2

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Electropherogram Summary Continued ...



Overall Results for sample 9 : Sample 9

RNA Area:	379.3	RNA Integrity Number (RIN):	6.7 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	1,493 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.2	Result Flagging Label:	RIN: 6.70

Fragment table for sample 9 : Sample 9

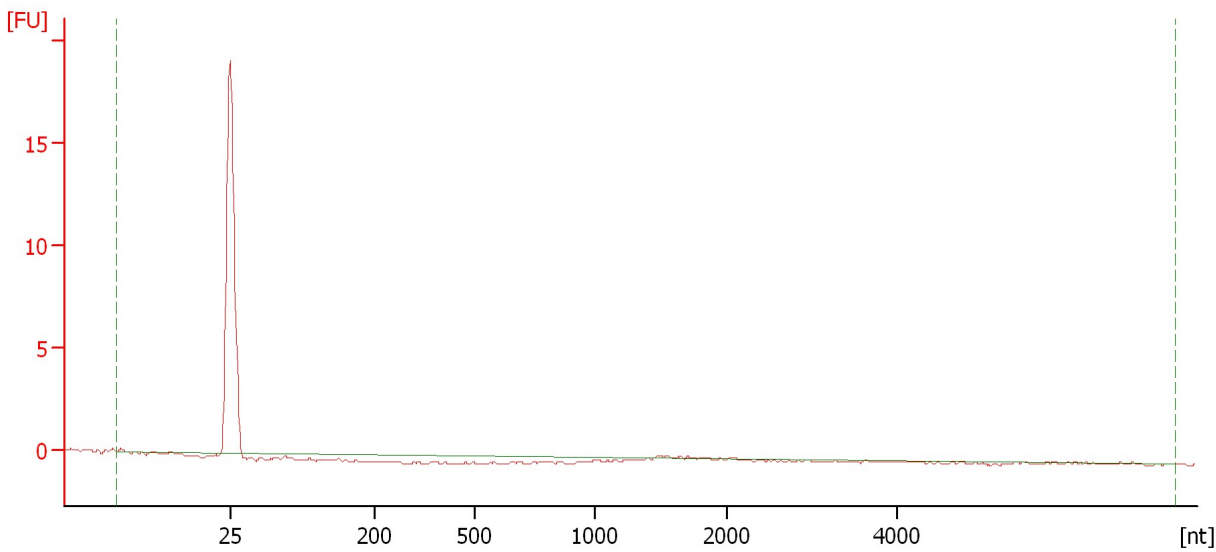
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,661	2,387	26.4	7.0
28S	3,099	3,911	30.5	8.0

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Electropherogram Summary Continued ...

Sample 10



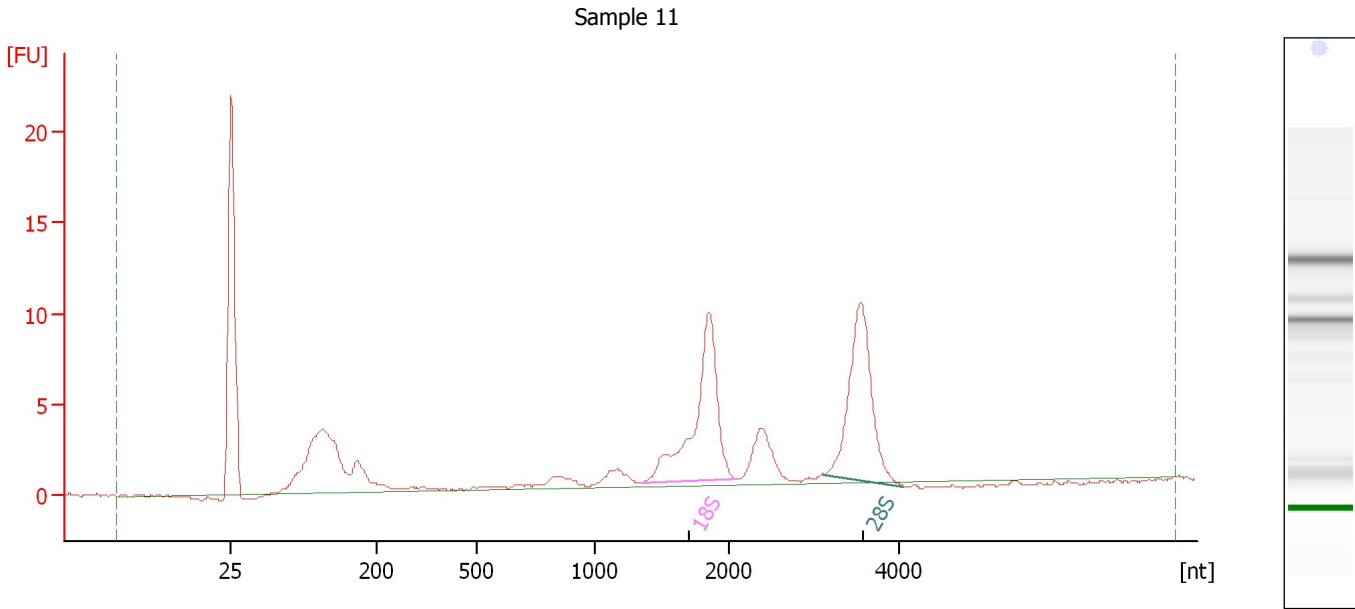
Overall Results for sample 10 : Sample 10

RNA Area:	0.3	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	1 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

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Electropherogram Summary Continued ...



Overall Results for sample 11 : Sample 11

RNA Area:	91.2	RNA Integrity Number (RIN):	9.3 (B.02.08)
RNA Concentration:	359 µg/µl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.9	Result Flagging Label:	RIN: 9.30

Fragment table for sample 11 : Sample 11

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,338	2,112	24.0	26.3
28S	3,111	4,048	21.7	23.7

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Gel Image

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Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 12)		Instrument	Run		1/10/2017 4:19:14 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2017-01-10\2017-01-10_003.xad)		Instrument	Run		1/10/2017 3:56:28 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		1/10/2017 3:56:28 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		1/10/2017 3:56:28 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		1/10/2017 3:56:28 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		1/10/2017 3:56:28 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		1/10/2017 3:56:28 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		1/10/2017 3:56:28 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1