

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...00 expert\data\2019-05-15\2019-05-15_001_BrendanTinsley.xad

Created: 5/15/2019 7:13:27 AM
Modified: 5/15/2019 7:45:55 AM

Electrophoresis File Run Summary

Instrument Information:

Instrument Name: DE34903152 Firmware: C.01.069
Serial#: DE34903152 Type: G2938C

Assay Information:

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

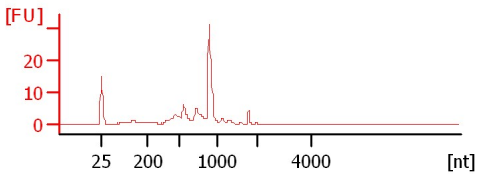
Assay Class: Eukaryote Total RNA Nano
Version: 2.6
Assay Comments: Total RNA Analysis ng sensitivity (Eukaryote)

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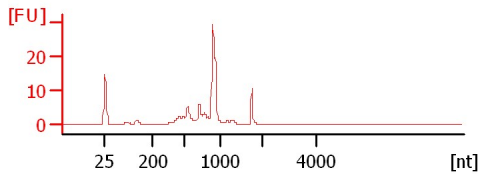
Chip Information:

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

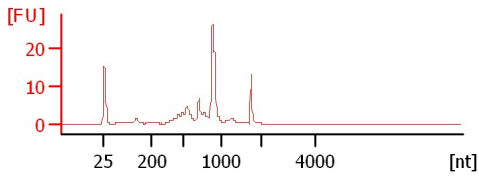
A
RIN: 2.30



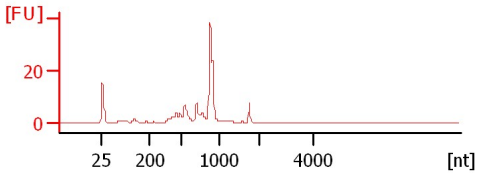
B
RIN: 3.80



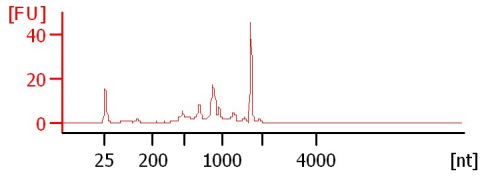
C
RIN: 4.30



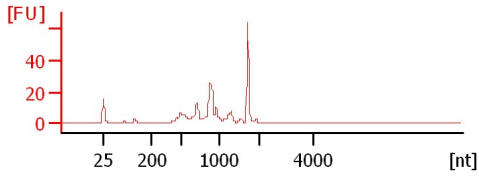
D
RIN: 2.70



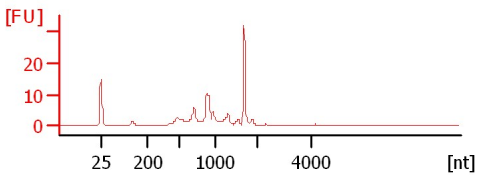
A'''
RIN: 5.30



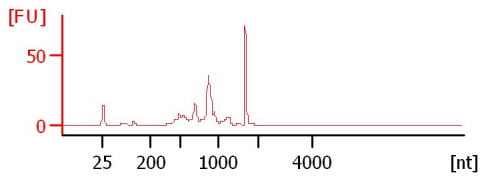
B'''
RIN: 5.20



C'''
RIN: 5.50



D'''
RIN: 5.10



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Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
A		✓	RIN: 2.30	
B		✓	RIN: 3.80	
C		✓	RIN: 4.30	
D		✓	RIN: 2.70	
A'''		✓	RIN: 5.30	
B'''		✓	RIN: 5.20	
C'''		✓	RIN: 5.50	
D'''		✓	RIN: 5.10	
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.) : 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/ μ l] : 150
Lower Marker Concentration [ng/ μ l] : 0
Upper Marker Concentration [ng/ 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] : 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

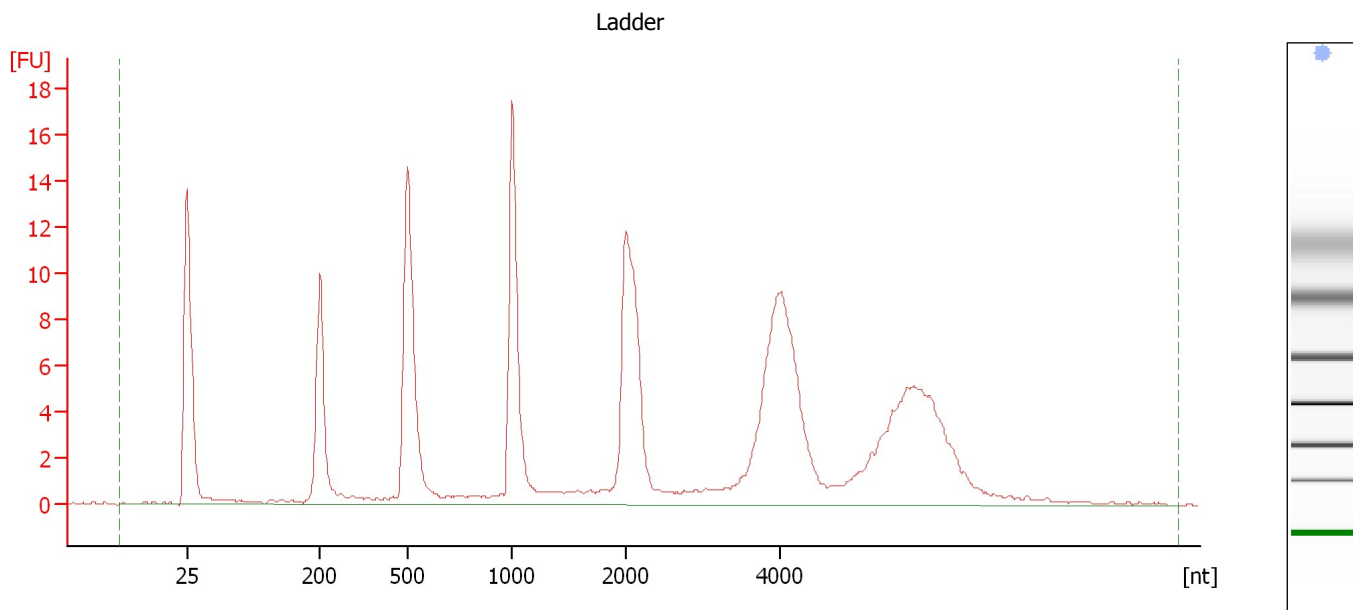
Ladder

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

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Electropherogram Summary



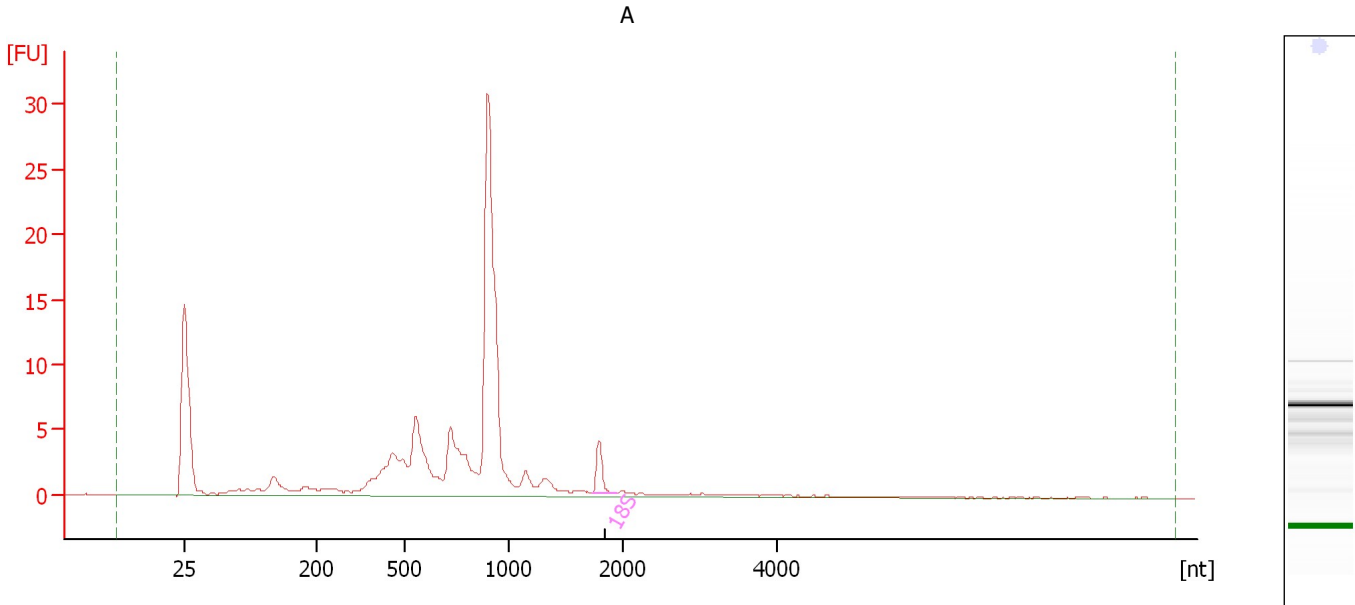
Overall Results for Ladder

RNA Area:	180.5	Result Flagging Color:	
RNA Concentration:	150 ng/μl	Result Flagging Label:	All Other Samples

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Electropherogram Summary Continued ...



Overall Results for sample 1 : A

RNA Area:	112.0	RNA Integrity Number (RIN):	2.3 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	93 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.30

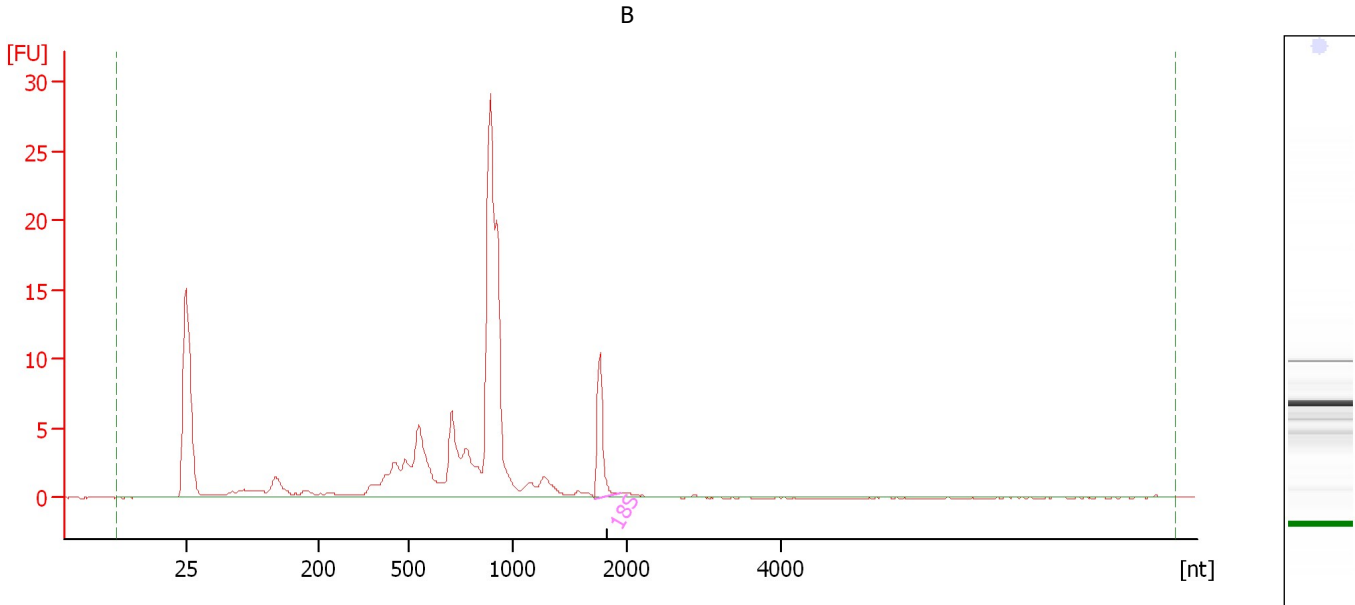
Fragment table for sample 1 : A

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,728	1,943	2.8	2.5

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Electropherogram Summary Continued ...



Overall Results for sample 2 : B

RNA Area:	107.8	RNA Integrity Number (RIN):	3.8 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	90 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 3.80

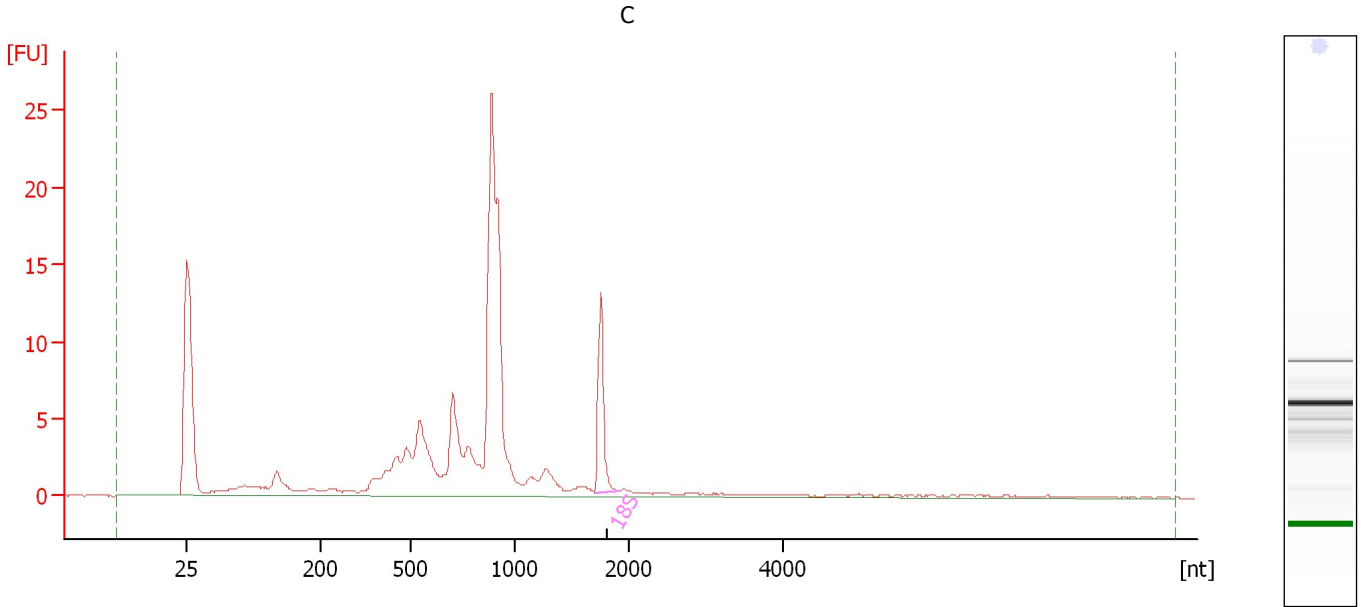
Fragment table for sample 2 : B

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,713	1,936	6.9	6.4

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Electropherogram Summary Continued ...



Overall Results for sample 3 : C

RNA Area:	118.2	RNA Integrity Number (RIN):	4.3 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	98 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 4.30

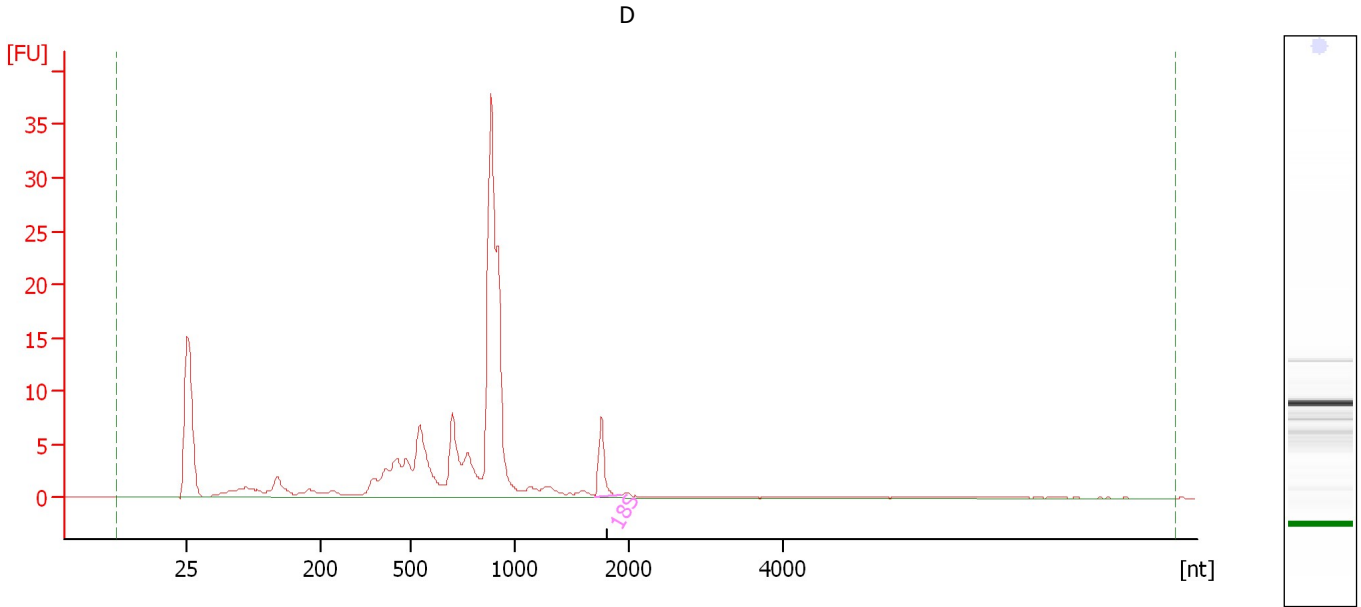
Fragment table for sample 3 : C

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,705	1,909	8.6	7.3

Assay Class: Eukaryote Total RNA Nano
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Electropherogram Summary Continued ...



Overall Results for sample 4 : D

RNA Area:	137.1	RNA Integrity Number (RIN):	2.7 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	114 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.70

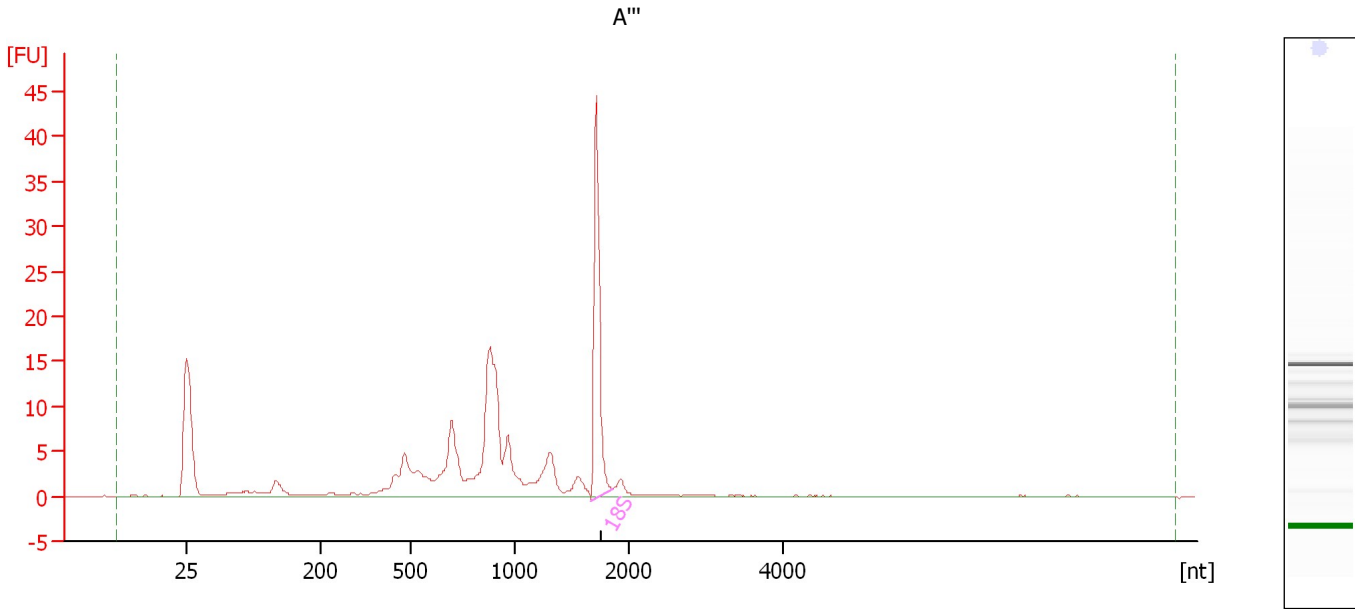
Fragment table for sample 4 : D

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,705	1,928	4.9	3.6

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...00 expert\data\2019-05-15\2019-05-15_001_BrendanTinsley.xad

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Electropherogram Summary Continued ...



Overall Results for sample 5 : A'''

RNA Area:	140.8	RNA Integrity Number (RIN):	5.3 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	117 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 5.30

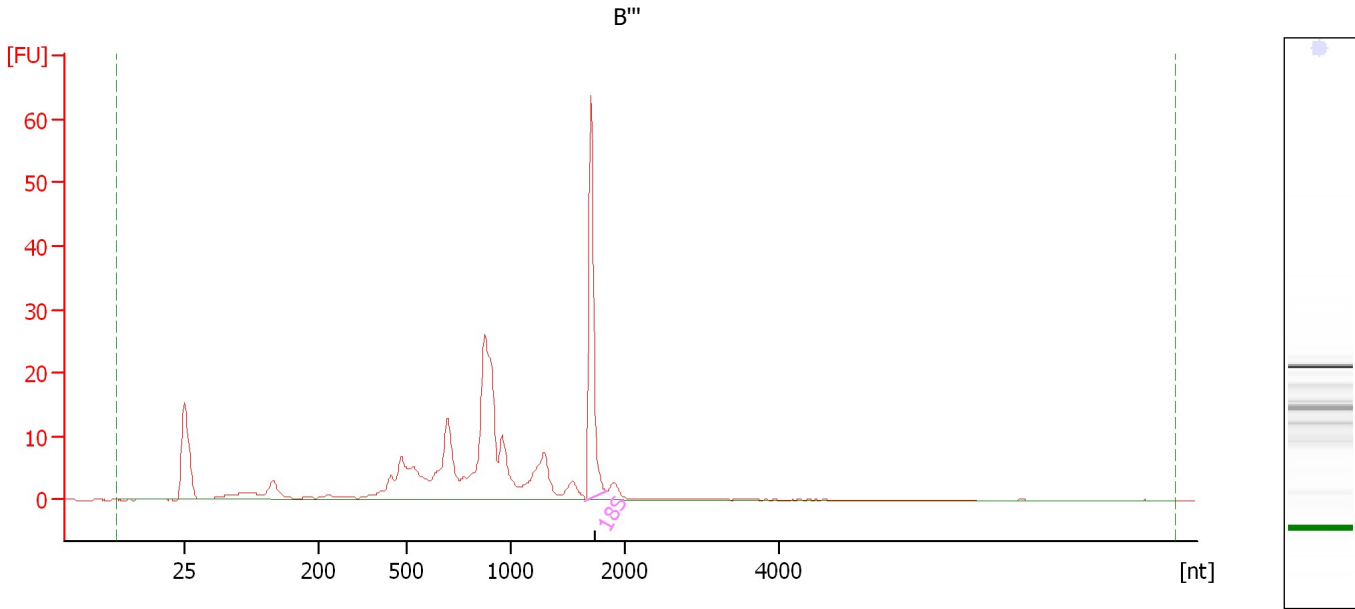
Fragment table for sample 5 : A'''

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,668	1,854	29.6	21.0

Assay Class: Eukaryote Total RNA Nano
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Electropherogram Summary Continued ...



Overall Results for sample 6 : B'''

RNA Area:	220.7	RNA Integrity Number (RIN):	5.2 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	183 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 5.20

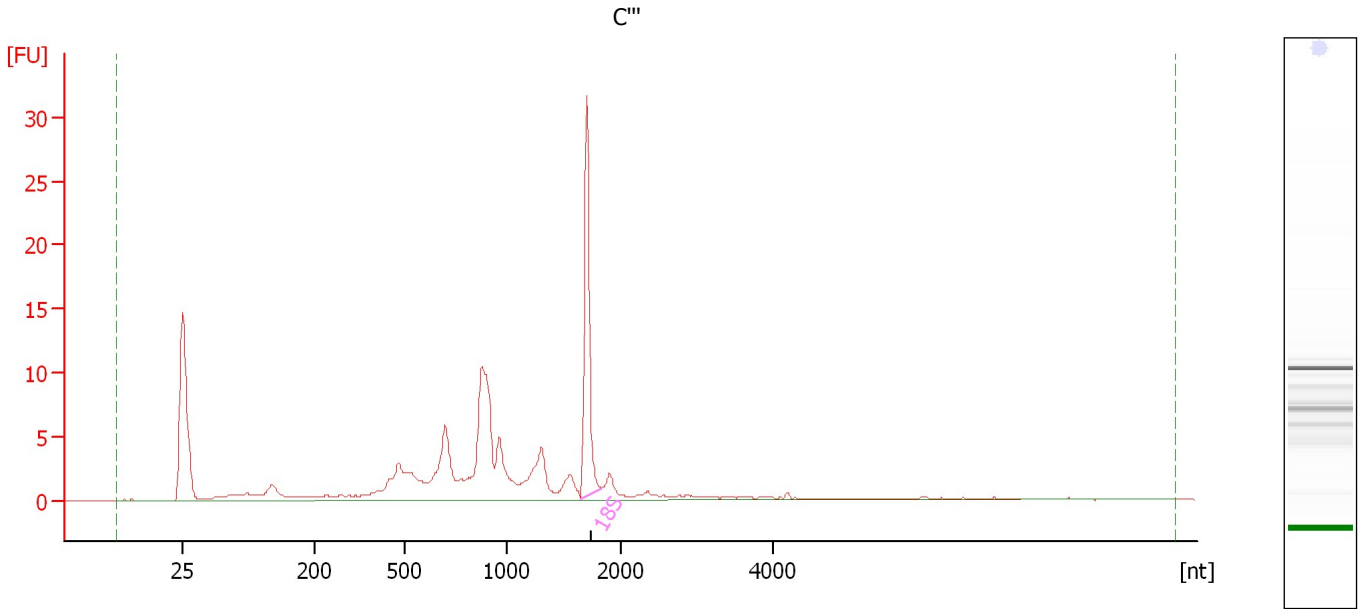
Fragment table for sample 6 : B'''

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,646	1,842	43.5	19.7

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Electropherogram Summary Continued ...



Overall Results for sample 7 : C'''

RNA Area:	103.1	RNA Integrity Number (RIN):	5.5 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	86 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 5.50

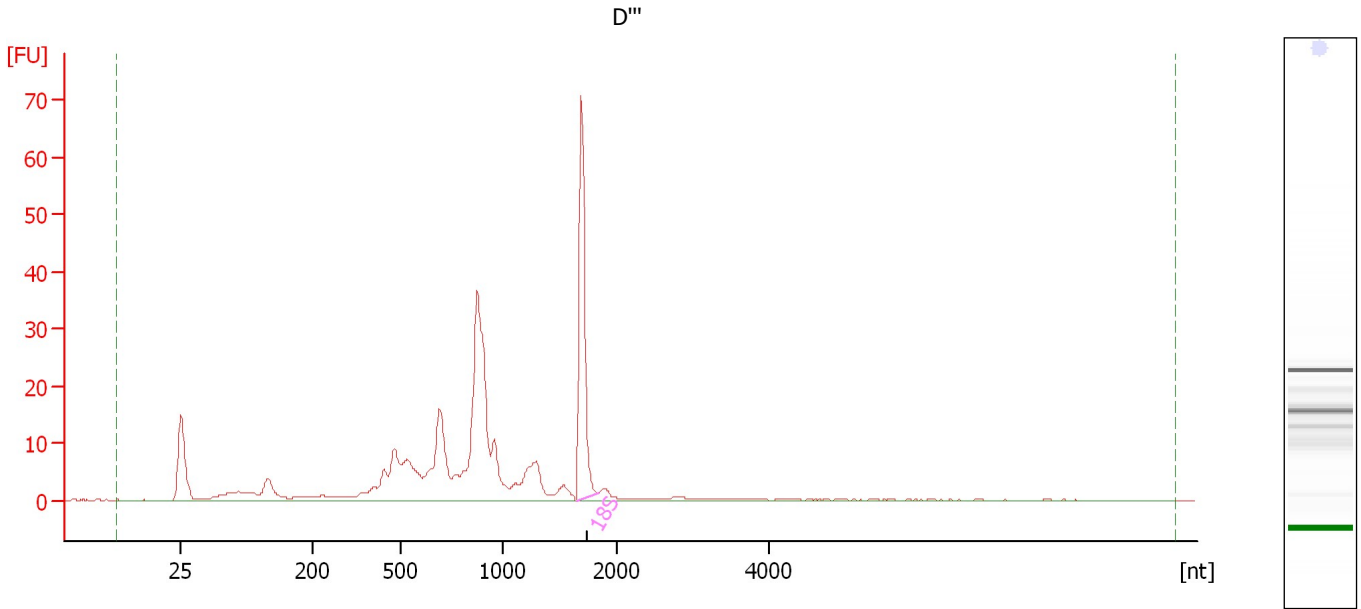
Fragment table for sample 7 : C'''

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,643	1,821	20.9	20.3

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Electropherogram Summary Continued ...



Overall Results for sample 8 : D'''

RNA Area:	260.9	RNA Integrity Number (RIN):	5.1 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	217 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 5.10

Fragment table for sample 8 : D'''

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,639	1,837	48.9	18.7

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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: 13)		Instrument	Run		5/15/2019 7:37:13 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2019-05-15\2019-05-15_001.xad)		Instrument	Run		5/15/2019 7:13:32 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938C		Instrument	Run		5/15/2019 7:13:32 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		5/15/2019 7:13:32 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		5/15/2019 7:13:32 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE34903152		Instrument	Run		5/15/2019 7:13:32 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		5/15/2019 7:13:32 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		5/15/2019 7:13:32 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1