

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... expert\data\2018-06-15\2018-06-15_004_NovaSeq003_RNAQC.xad

Created: 6/15/2018 2:54:23 PM
Modified: 6/15/2018 3:35:25 PM

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)

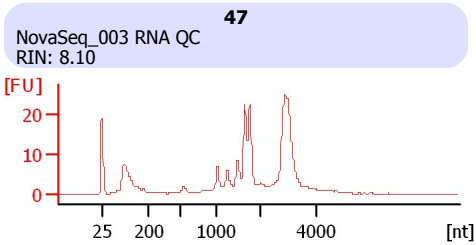
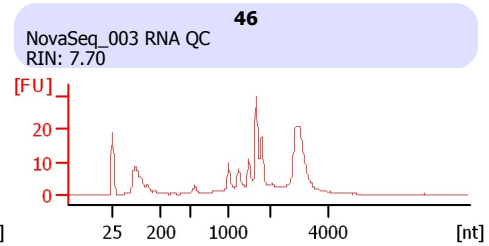
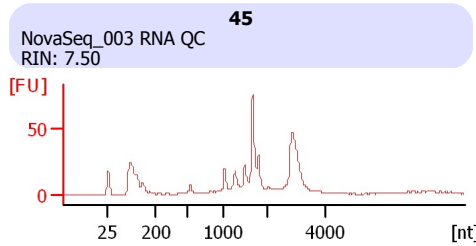
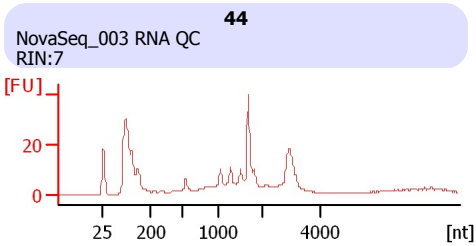
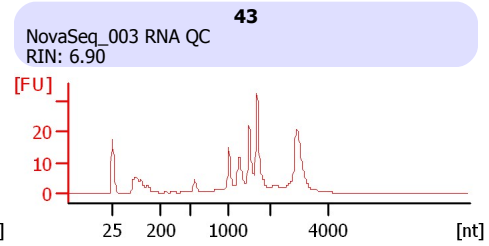
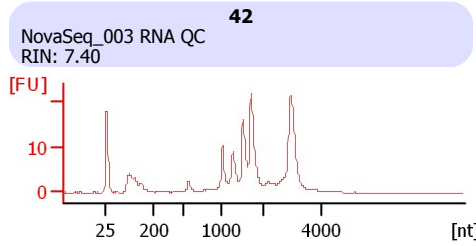
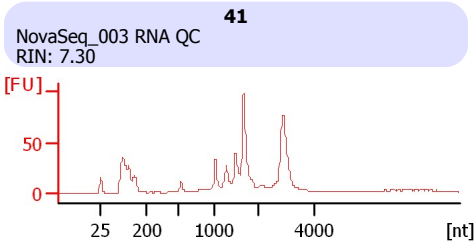
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Chip Information:

Chip Lot #:

Reagent Kit Lot #:

Chip Comments:



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Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
41	NovaSeq_003 RNA QC	✓	RIN: 7.30	
42	NovaSeq_003 RNA QC	✓	RIN: 7.40	
43	NovaSeq_003 RNA QC	✓	RIN: 6.90	
44	NovaSeq_003 RNA QC	✓	RIN:7	
45	NovaSeq_003 RNA QC	✓	RIN: 7.50	
46	NovaSeq_003 RNA QC	✓	RIN: 7.70	
47	NovaSeq_003 RNA QC	✓	RIN: 8.10	
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/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

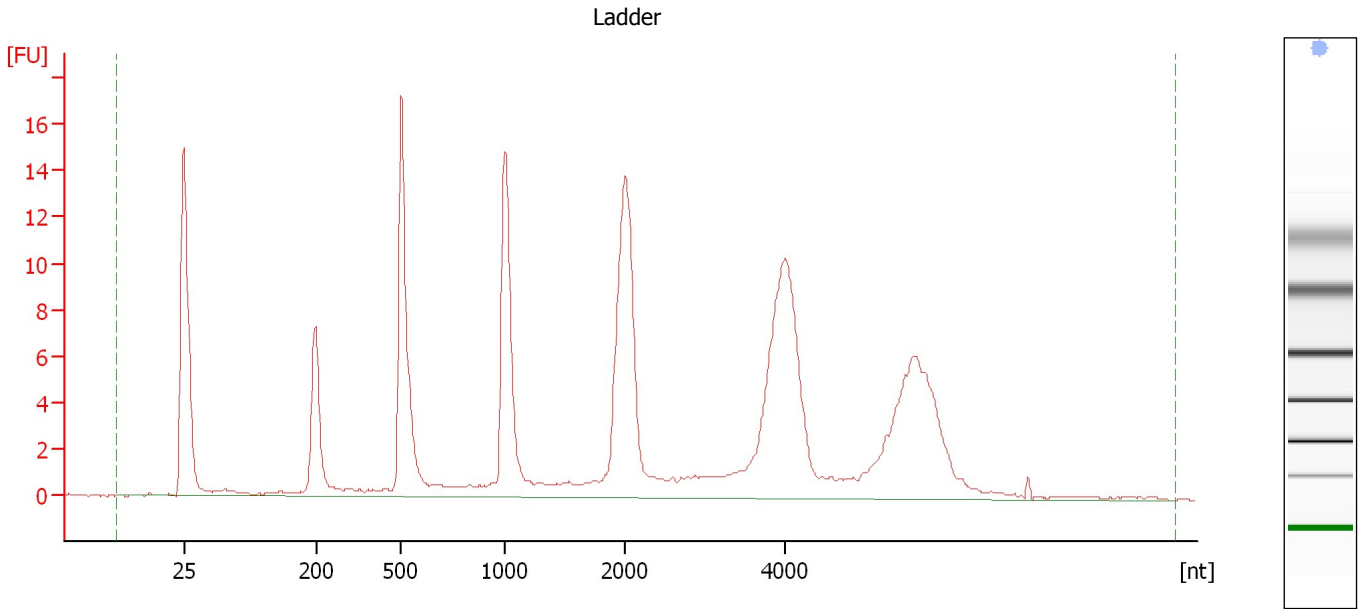
Ladder

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

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Electropherogram Summary



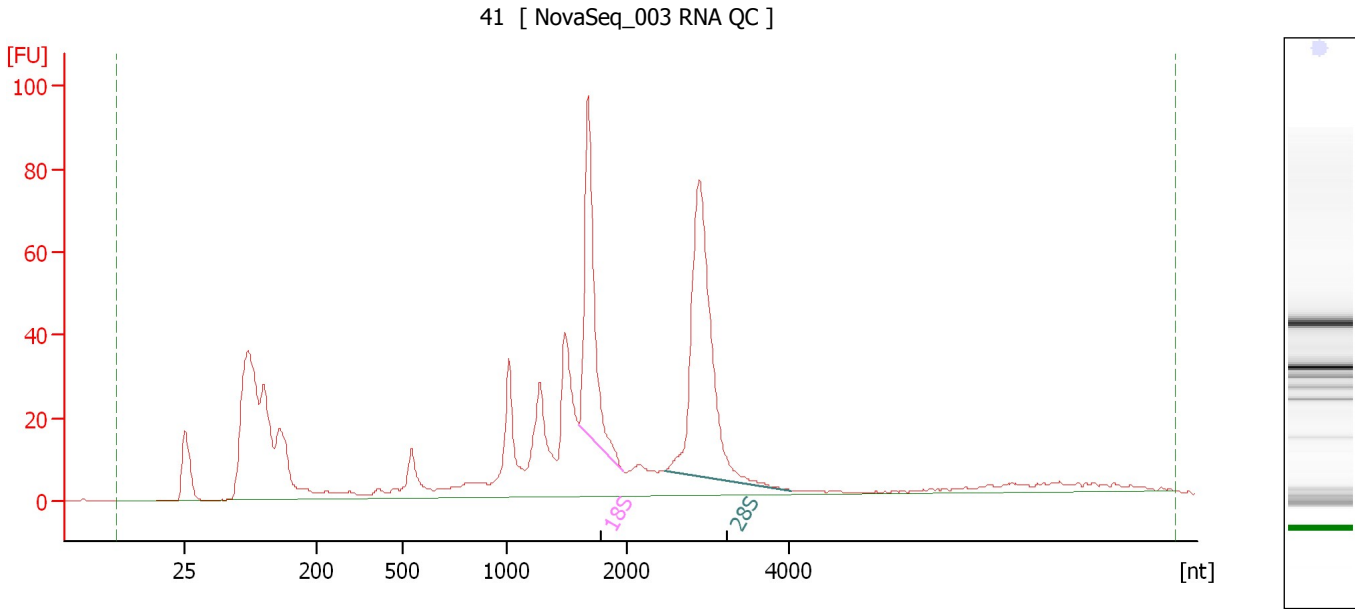
Overall Results for Ladder

RNA Area:	178.6	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 : 41

RNA Area:	867.6	RNA Integrity Number (RIN):	7.3 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	729 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.6	Result Flagging Label:	RIN: 7.30

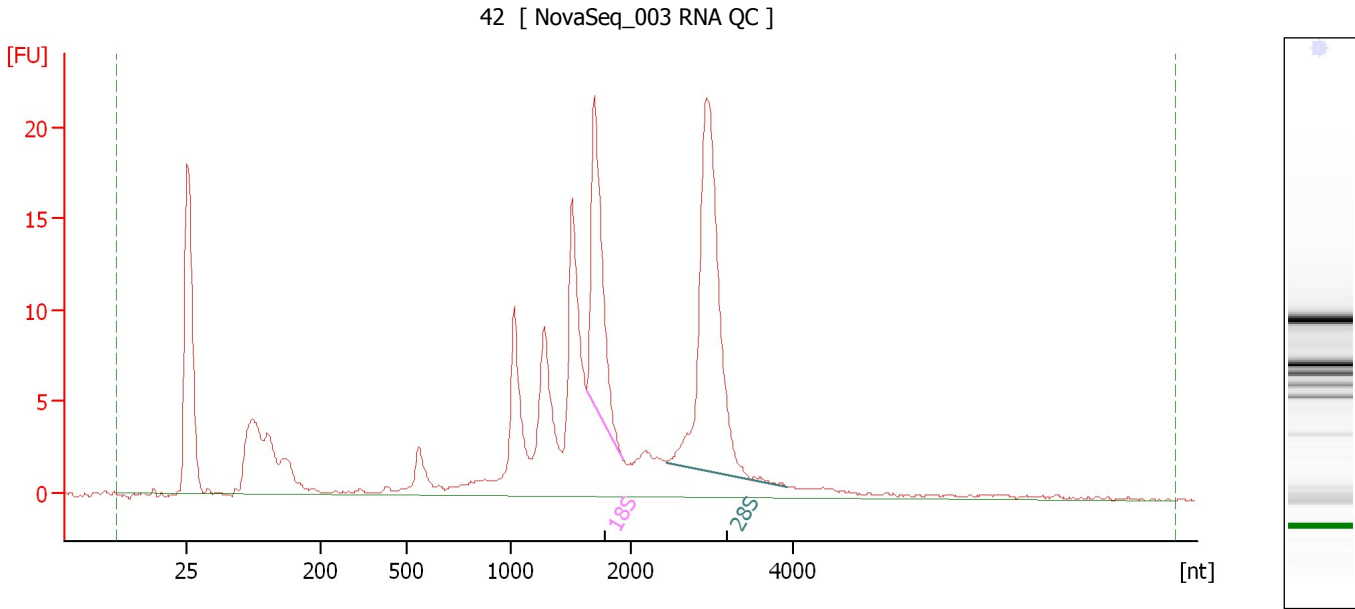
Fragment table for sample 1 : 41

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,603	1,956	102.3	11.8
28S	2,453	4,023	163.1	18.8

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Electropherogram Summary Continued ...



Overall Results for sample 2 : 42

RNA Area:	215.6	RNA Integrity Number (RIN):	7.4 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	181 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.9	Result Flagging Label:	RIN: 7.40

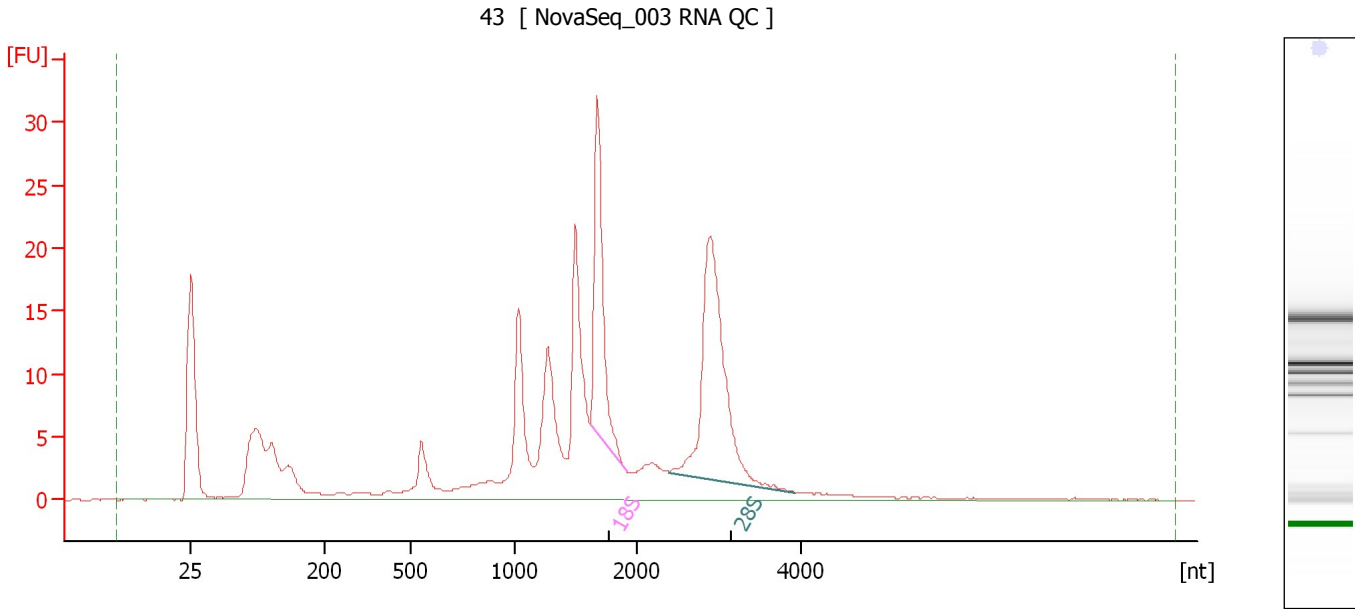
Fragment table for sample 2 : 42

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,624	1,923	23.8	11.1
28S	2,427	3,924	45.7	21.2

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Electropherogram Summary Continued ...



Overall Results for sample 3 : 43

RNA Area:	269.0	RNA Integrity Number (RIN):	6.9 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	226 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.7	Result Flagging Label:	RIN: 6.90

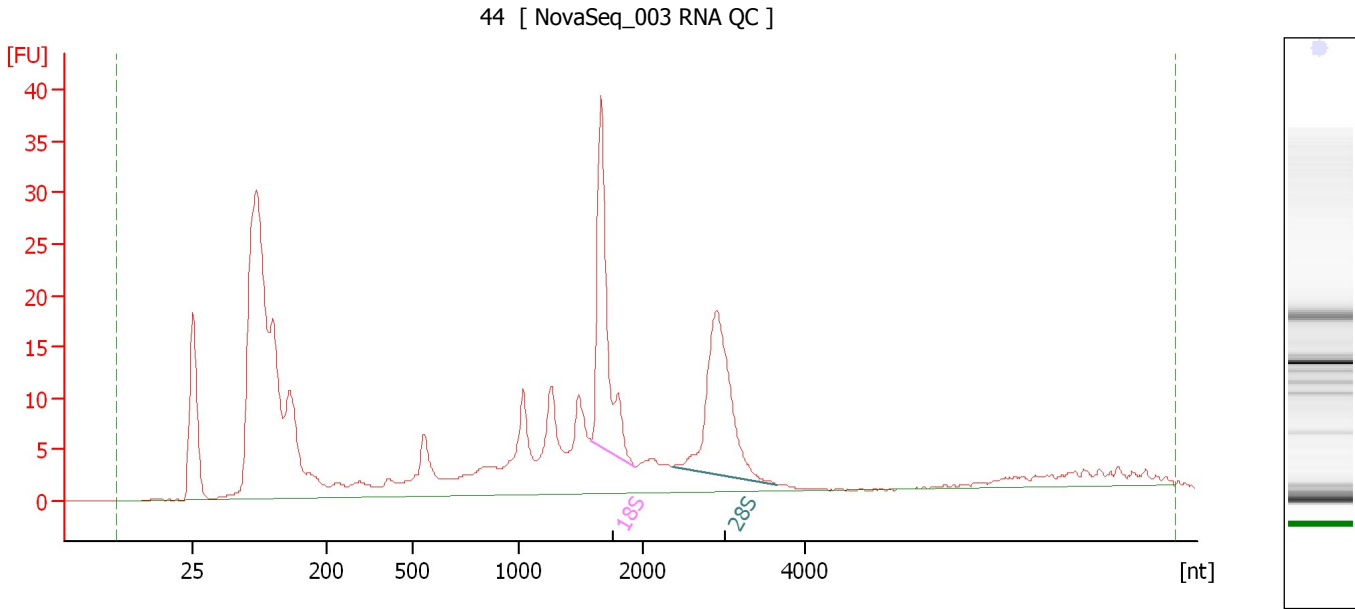
Fragment table for sample 3 : 43

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,611	1,908	28.1	10.4
28S	2,388	3,941	47.8	17.8

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Electropherogram Summary Continued ...



Overall Results for sample 4 : 44

RNA Area:	416.9	RNA Integrity Number (RIN):	7 (B.02.08)
RNA Concentration:	350 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.0	Result Flagging Label:	RIN:7

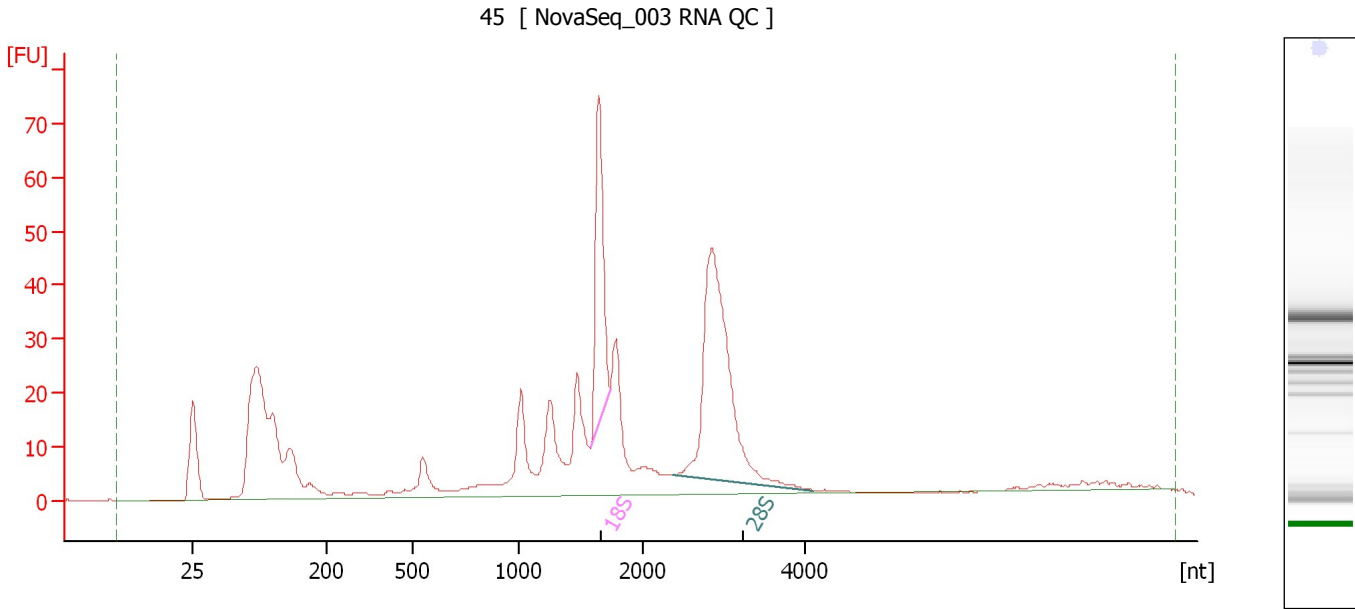
Fragment table for sample 4 : 44

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,588	1,945	42.1	10.1
28S	2,376	3,646	43.1	10.3

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Electropherogram Summary Continued ...



Overall Results for sample 5 : 45

RNA Area:	587.6	RNA Integrity Number (RIN):	7.5 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	493 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.2	Result Flagging Label:	RIN: 7.50

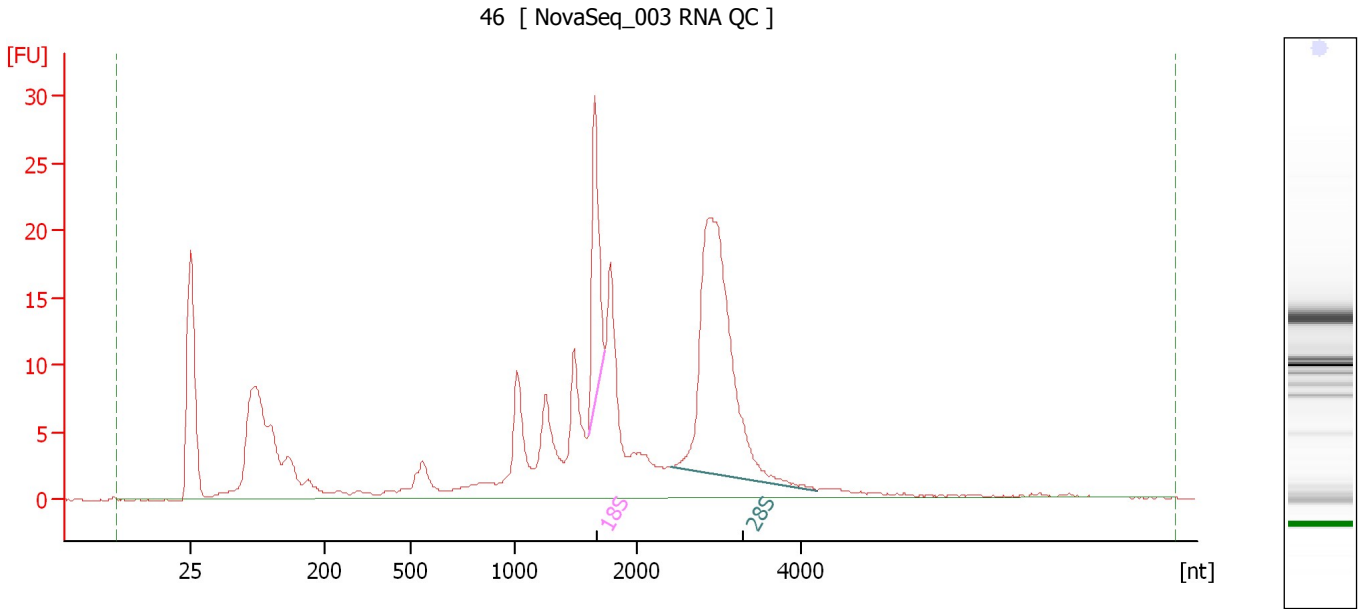
Fragment table for sample 5 : 45

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,588	1,745	55.8	9.5
28S	2,389	4,105	123.7	21.1

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Electropherogram Summary Continued ...



Overall Results for sample 6 : 46

RNA Area:	283.2	RNA Integrity Number (RIN):	7.7 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	238 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	3.5	Result Flagging Label:	RIN: 7.70

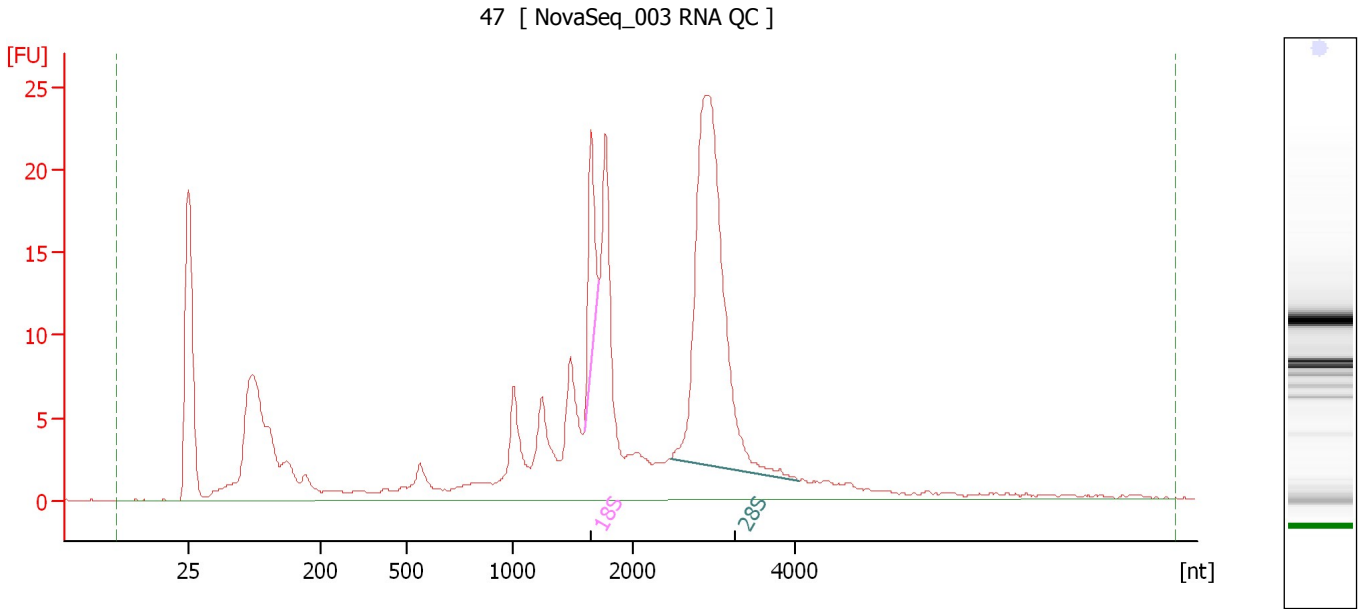
Fragment table for sample 6 : 46

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,594	1,733	19.2	6.8
28S	2,414	4,204	67.6	23.9

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Electropherogram Summary Continued ...



Overall Results for sample 7 : 47

RNA Area:	279.5	RNA Integrity Number (RIN):	8.1 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	235 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	6.5	Result Flagging Label:	RIN: 8.10

Fragment table for sample 7 : 47

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,590	1,713	11.0	3.9
28S	2,454	4,053	71.3	25.5

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