

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ata\2018-04-20\2018-04-20_003_HiSeq1341_Iyer_RNAQC_1of3.xad

Created: 4/20/2018 12:35:13 PM
Modified: 4/20/2018 1:16:47 PM

Electrophoresis File Run Summary

Instrument Information:

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

Assay Information:

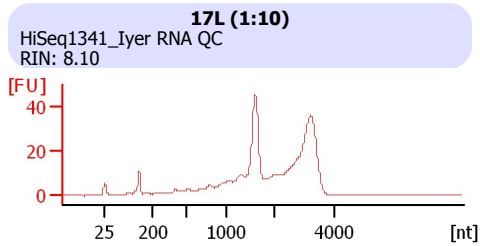
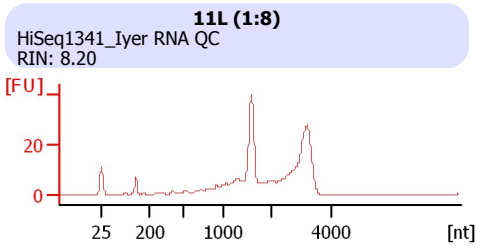
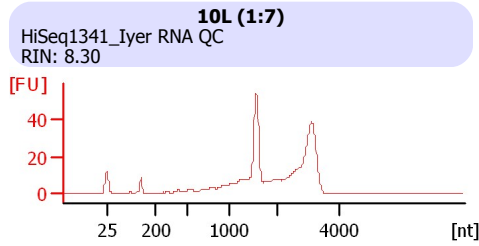
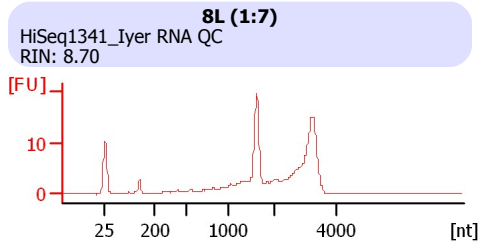
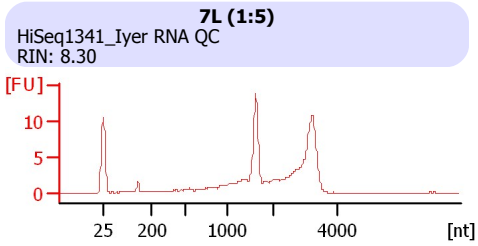
Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\RNA\Eukaryote Total RNA Pico Series II.xsy

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
7L (1:5)	HiSeq1341_Iyer RNA QC	✓	RIN: 8.30	
8L (1:7)	HiSeq1341_Iyer RNA QC	✓	RIN: 8.70	
10L (1:7)	HiSeq1341_Iyer RNA QC	✓	RIN: 8.30	
11L (1:8)	HiSeq1341_Iyer RNA QC	✓	RIN: 8.20	
17L (1:10)	HiSeq1341_Iyer 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.) : 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

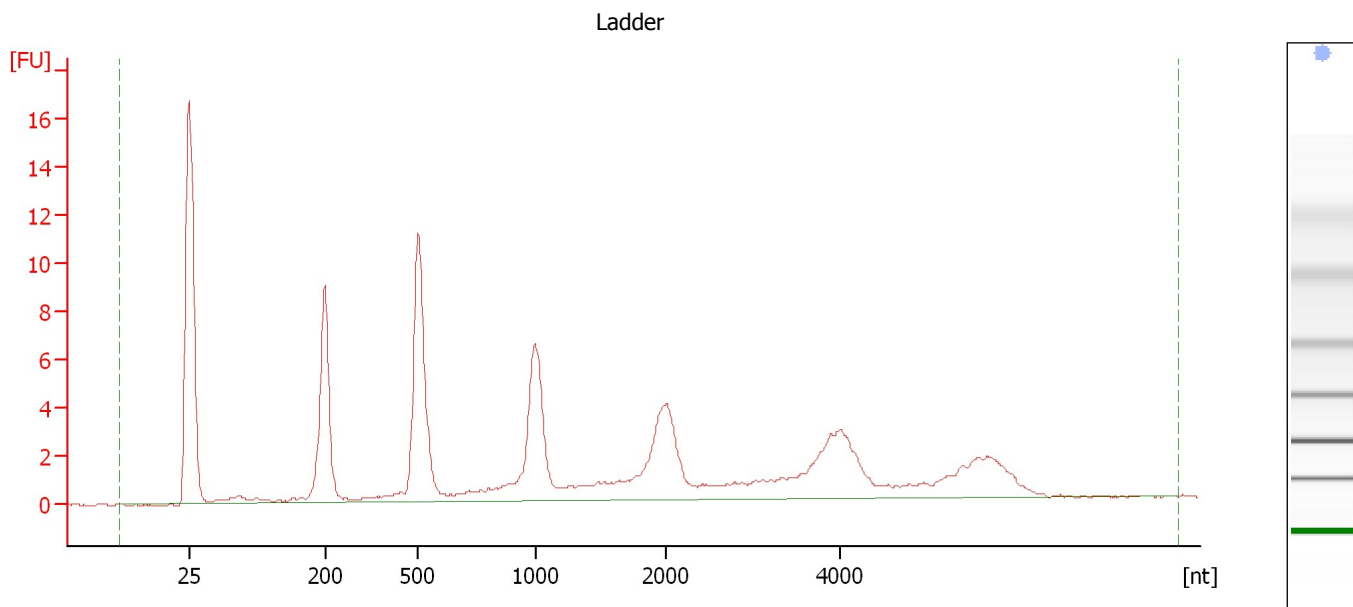
Ladder

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

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Electropherogram Summary



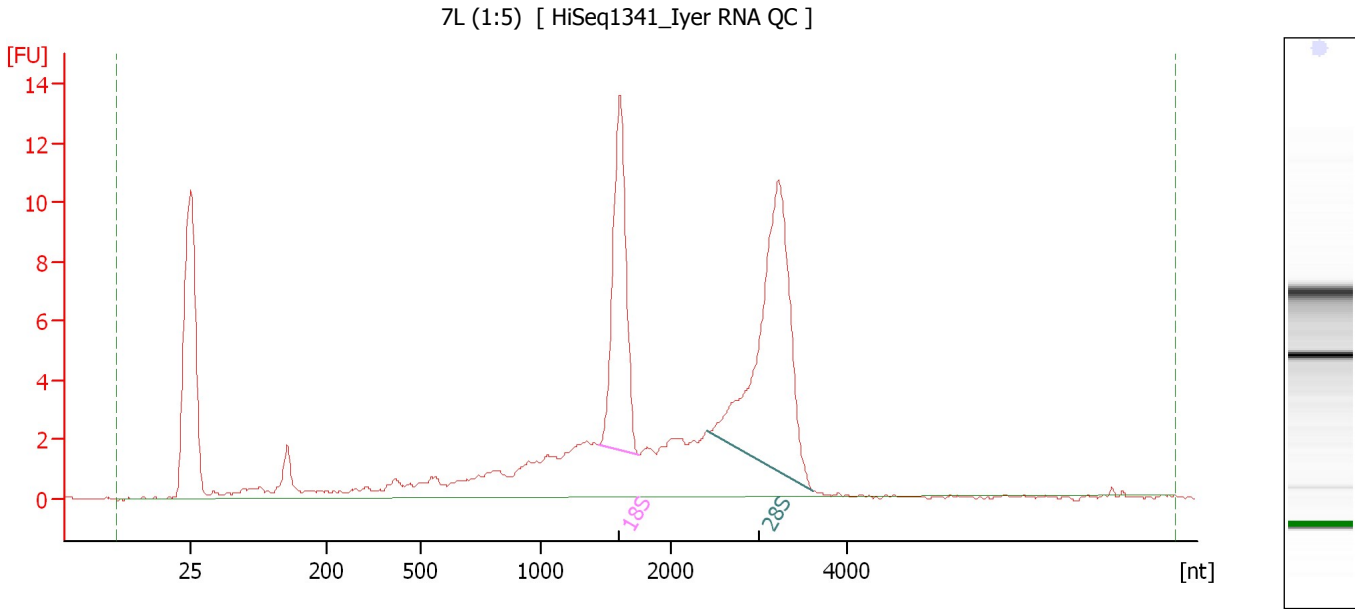
Overall Results for Ladder

RNA Area:	108.1	Result Flagging Color:	
RNA Concentration:	1,000 pg/μl	Result Flagging Label:	All Other Samples

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Created: 4/20/2018 12:35:13 PM
 Modified: 4/20/2018 1:16:47 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : 7L (1:5)

RNA Area:	120.2	RNA Integrity Number (RIN):	8.3 (B.02.08)
RNA Concentration:	1,112 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.7	Result Flagging Label:	RIN: 8.30

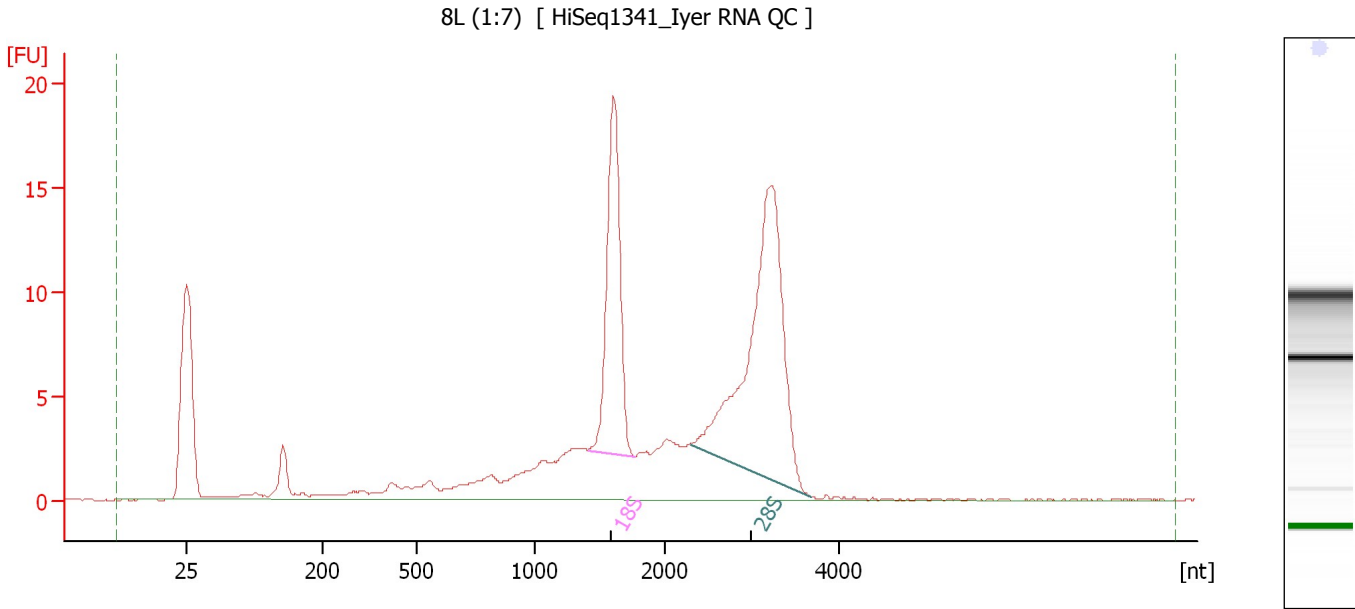
Fragment table for sample 1 : 7L (1:5)

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,448	1,756	19.6	16.3
28S	2,414	3,606	32.7	27.2

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Electropherogram Summary Continued ...



Overall Results for sample 2 : 8L (1:7)

RNA Area:	163.6	RNA Integrity Number (RIN):	8.7 (B.02.08)
RNA Concentration:	1,514 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.8	Result Flagging Label:	RIN: 8.70

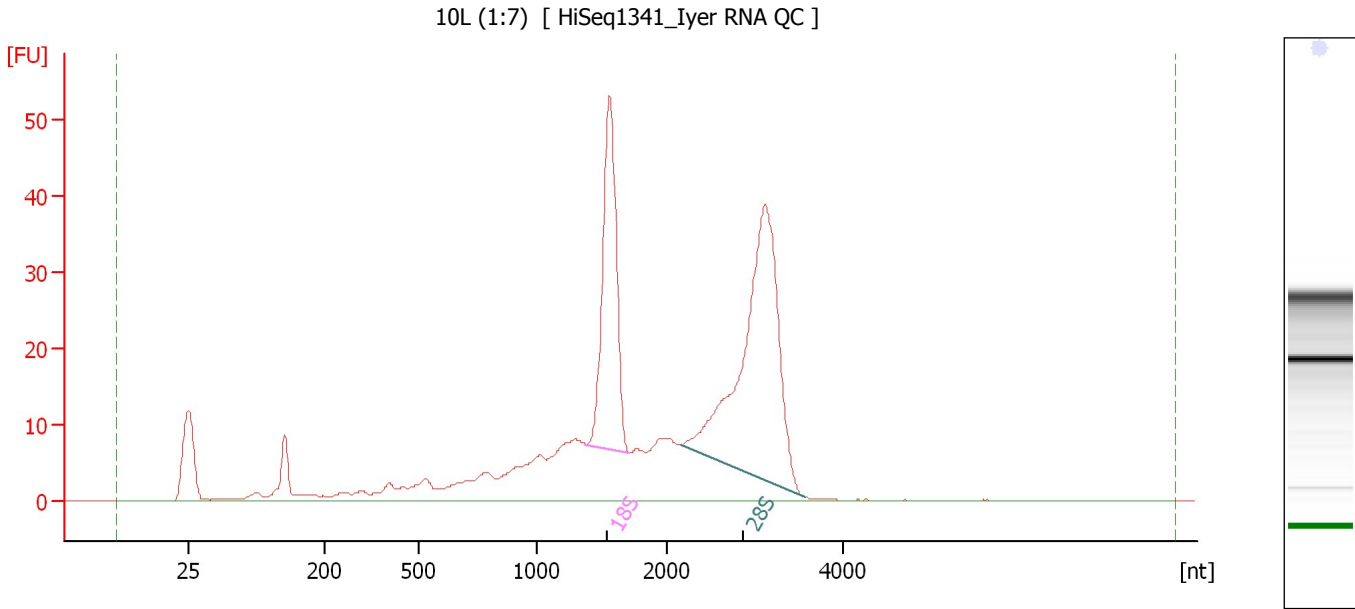
Fragment table for sample 2 : 8L (1:7)

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,411	1,762	28.3	17.3
28S	2,306	3,677	52.1	31.8

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 Modified: 4/20/2018 1:16:47 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : 10L (1:7)

RNA Area:	471.2	RNA Integrity Number (RIN):	8.3 (B.02.08)
RNA Concentration:	4,360 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.8	Result Flagging Label:	RIN: 8.30

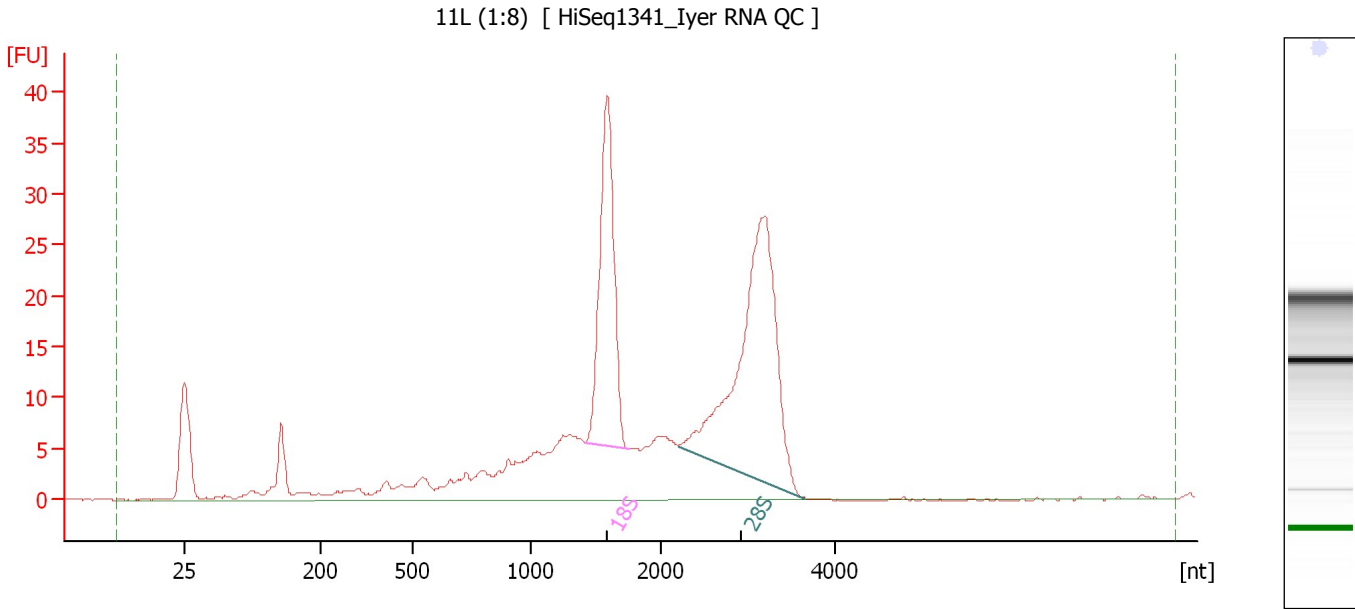
Fragment table for sample 3 : 10L (1:7)

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,371	1,714	80.6	17.1
28S	2,159	3,576	142.0	30.1

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Created: 4/20/2018 12:35:13 PM
 Modified: 4/20/2018 1:16:47 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : 11L (1:8)

RNA Area:	357.9	RNA Integrity Number (RIN):	8.2 (B.02.08)
RNA Concentration:	3,311 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.7	Result Flagging Label:	RIN: 8.20

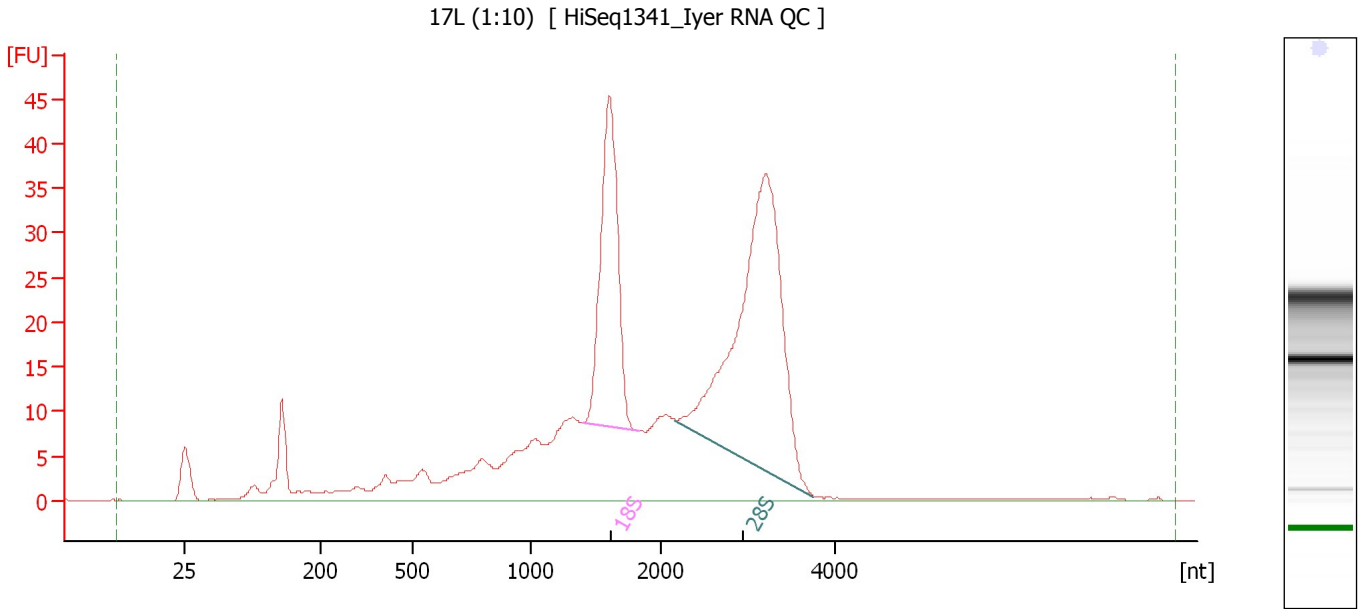
Fragment table for sample 4 : 11L (1:8)

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,416	1,753	62.7	17.5
28S	2,196	3,659	106.1	29.6

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Electropherogram Summary Continued ...



Overall Results for sample 5 : 17L (1:10)

RNA Area:	543.7	RNA Integrity Number (RIN):	8.1 (B.02.08)
RNA Concentration:	5,031 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.9	Result Flagging Label:	RIN: 8.10

Fragment table for sample 5 : 17L (1:10)

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,400	1,827	80.7	14.8
28S	2,171	3,758	157.3	28.9

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Gel Image

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Curves

Standard Curve

