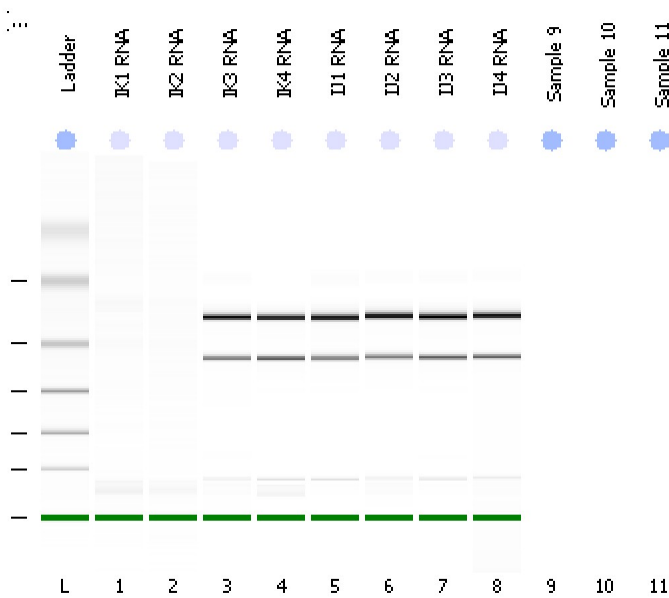


Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-12\2016-04-12_004.xad

Created: 4/12/2016 2:31:53 PM
Modified: 4/12/2016 2:57:25 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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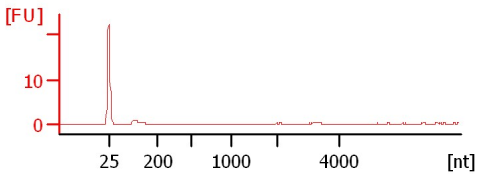
Chip Information:

Chip Lot #:

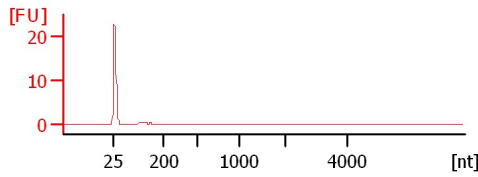
Reagent Kit Lot #:

Chip Comments:

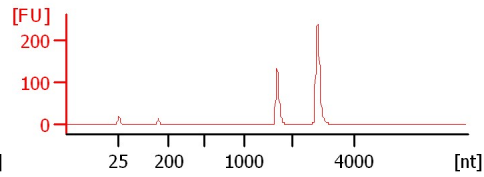
IK1 RNA
RIN:1



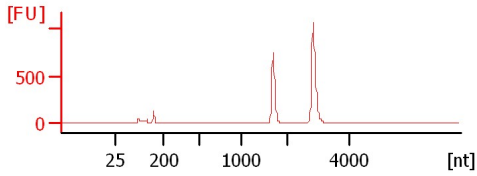
IK2 RNA
RIN:1



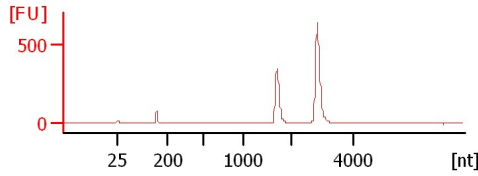
IK3 RNA
RIN:10



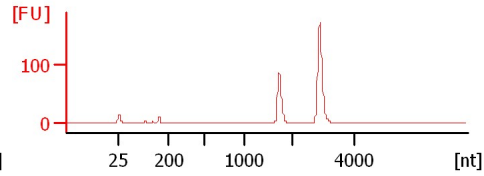
IK4 RNA
RIN:10



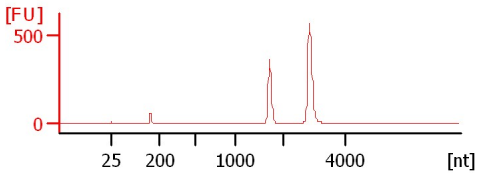
IJ1 RNA
RIN:10



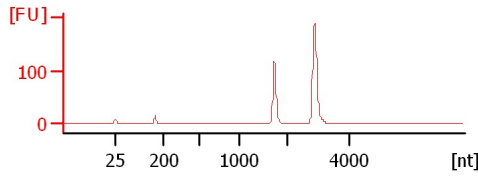
IJ2 RNA
RIN:10



IJ3 RNA
RIN:10



IJ4 RNA
RIN:10



Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-12\2016-04-12_004.xad

Created: 4/12/2016 2:31:53 PM
 Modified: 4/12/2016 2:57:25 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
IK1 RNA		✓	RIN:1	
IK2 RNA		✓	RIN:1	
IK3 RNA		✓	RIN:10	
IK4 RNA		✓	RIN:10	
IJ1 RNA		✓	RIN:10	
IJ2 RNA		✓	RIN:10	
IJ3 RNA		✓	RIN:10	
IJ4 RNA		✓	RIN:10	
Sample 9				
Sample 10				
Sample 11				
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-12\2016-04-12_004.xad

Created: 4/12/2016 2:31:53 PM
Modified: 4/12/2016 2:57:25 PM

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

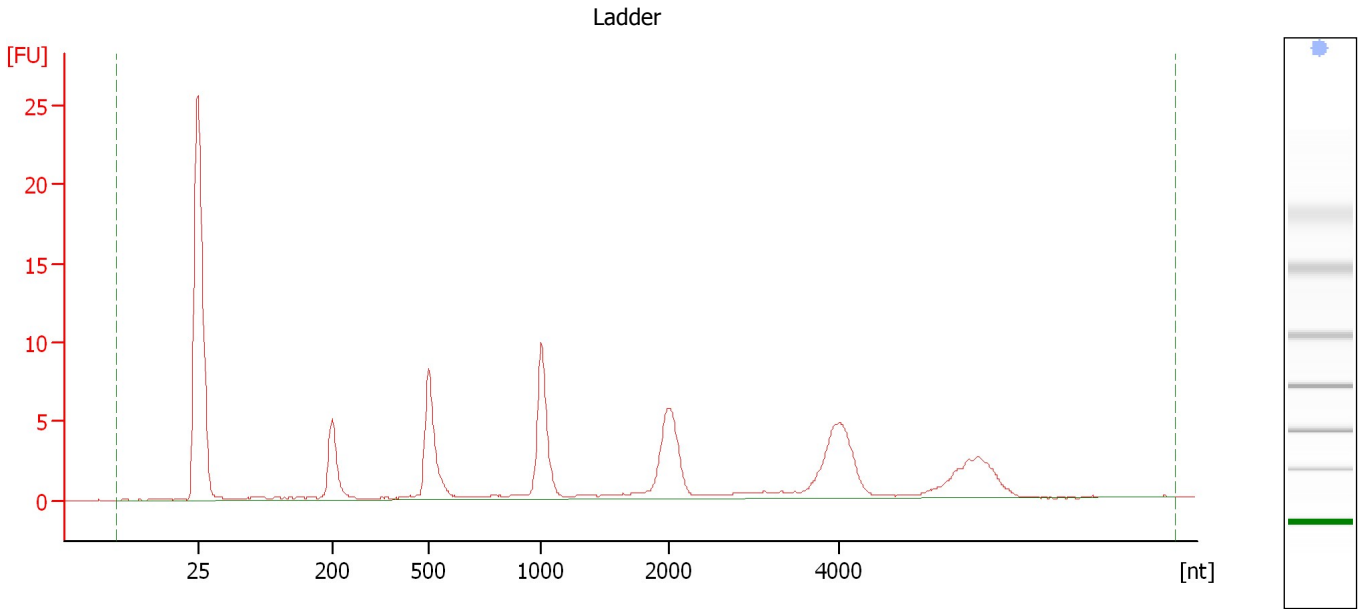
Ladder

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

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-12\2016-04-12_004.xad

Created: 4/12/2016 2:31:53 PM
Modified: 4/12/2016 2:57:25 PM

Electropherogram Summary



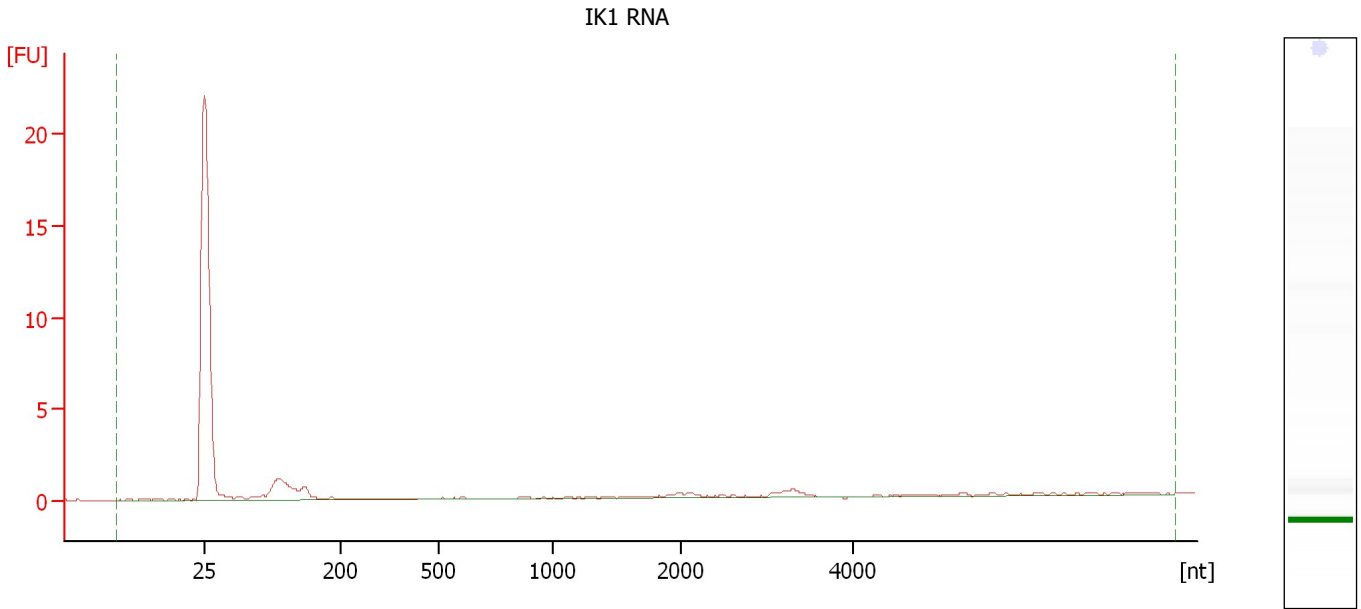
Overall Results for Ladder

RNA Area:	80.7	Result Flagging Color:	
RNA Concentration:	1,000 pg/μl	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-12\2016-04-12_004.xad

Created: 4/12/2016 2:31:53 PM
Modified: 4/12/2016 2:57:25 PM

Electropherogram Summary Continued ...



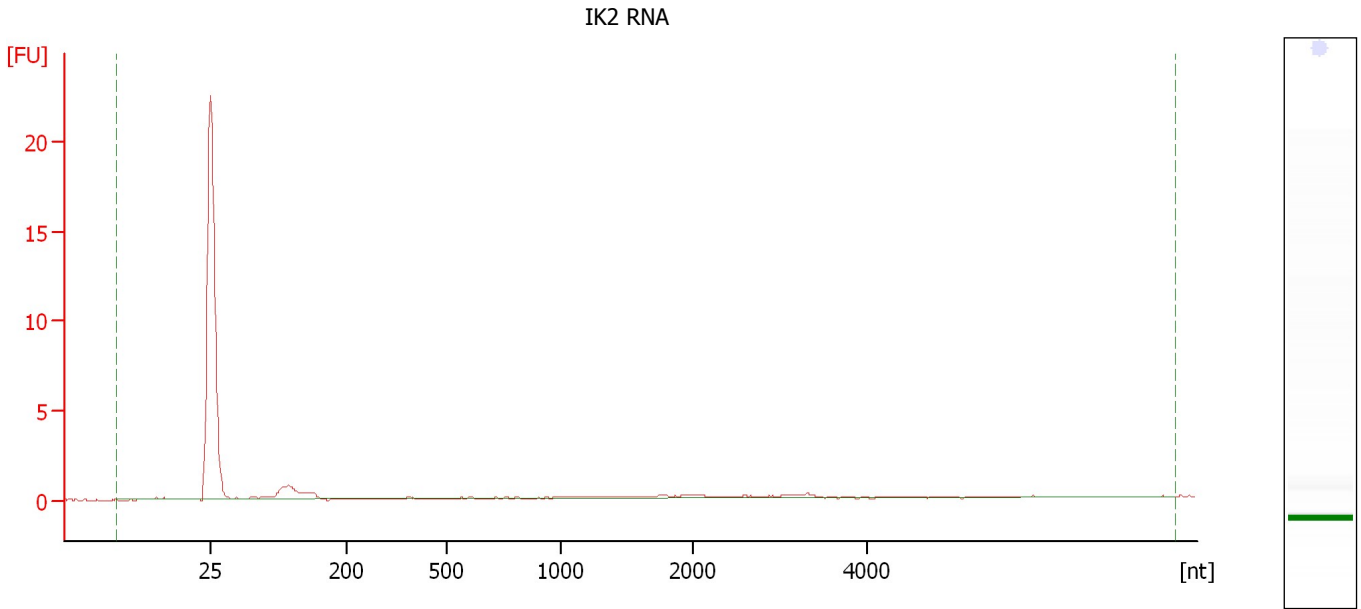
Overall Results for sample 1 : IK1 RNA

RNA Area:	11.4	RNA Integrity Number (RIN):	1 (B.02.08)
RNA Concentration:	142 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN:1

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-12\2016-04-12_004.xad

Created: 4/12/2016 2:31:53 PM
Modified: 4/12/2016 2:57:25 PM

Electropherogram Summary Continued ...



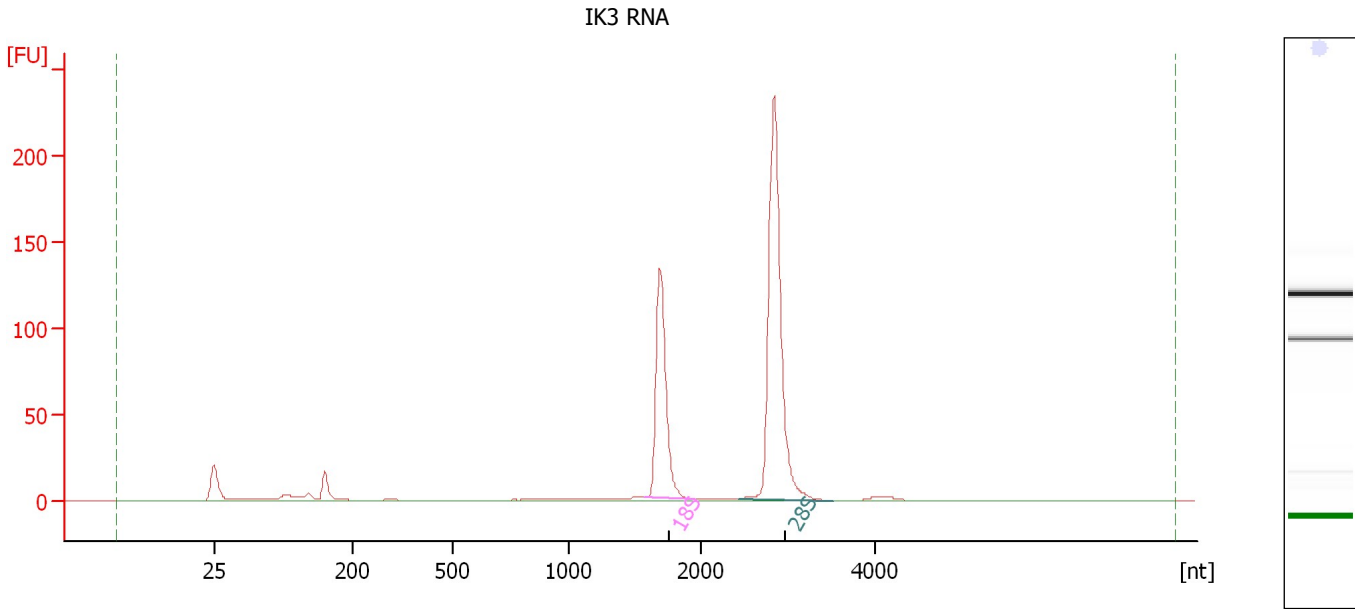
Overall Results for sample 2 : IK2 RNA

RNA Area:	8.2	RNA Integrity Number (RIN):	1 (B.02.08)
RNA Concentration:	102 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN:1

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-12\2016-04-12_004.xad

Created: 4/12/2016 2:31:53 PM
Modified: 4/12/2016 2:57:25 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : IK3 RNA

RNA Area:	531.0	RNA Integrity Number (RIN):	10 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	6,576 µg/µl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.9	Result Flagging Label:	RIN:10

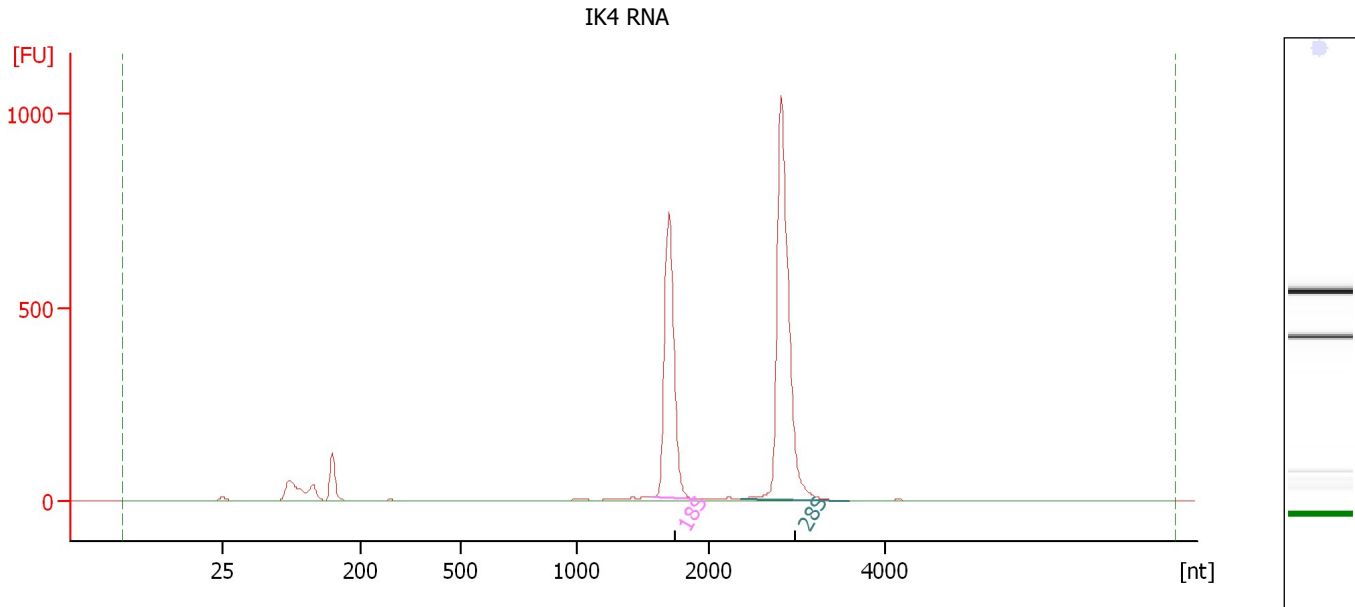
Fragment table for sample 3 : IK3 RNA

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,578	1,949	155.9	29.4
28S	2,436	3,508	300.2	56.5

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-12\2016-04-12_004.xad

Created: 4/12/2016 2:31:53 PM
 Modified: 4/12/2016 2:57:25 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : IK4 RNA

RNA Area:	2,661.2	RNA Integrity Number (RIN):	10 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	32,960 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.6	Result Flagging Label:	RIN:10

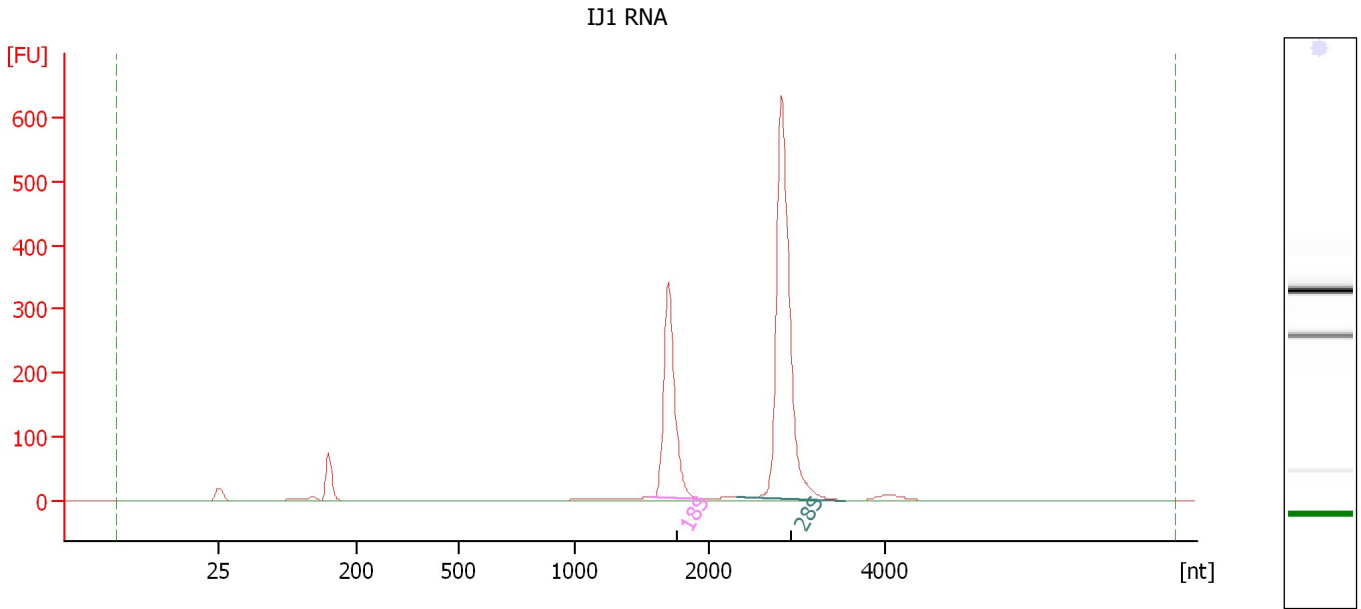
Fragment table for sample 4 : IK4 RNA

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,566	1,903	829.0	31.2
28S	2,350	3,586	1,297.1	48.7

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-12\2016-04-12_004.xad

Created: 4/12/2016 2:31:53 PM
 Modified: 4/12/2016 2:57:25 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : IJ1 RNA

RNA Area:	1,605.9	RNA Integrity Number (RIN):	10 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	19,890 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.0	Result Flagging Label:	RIN:10

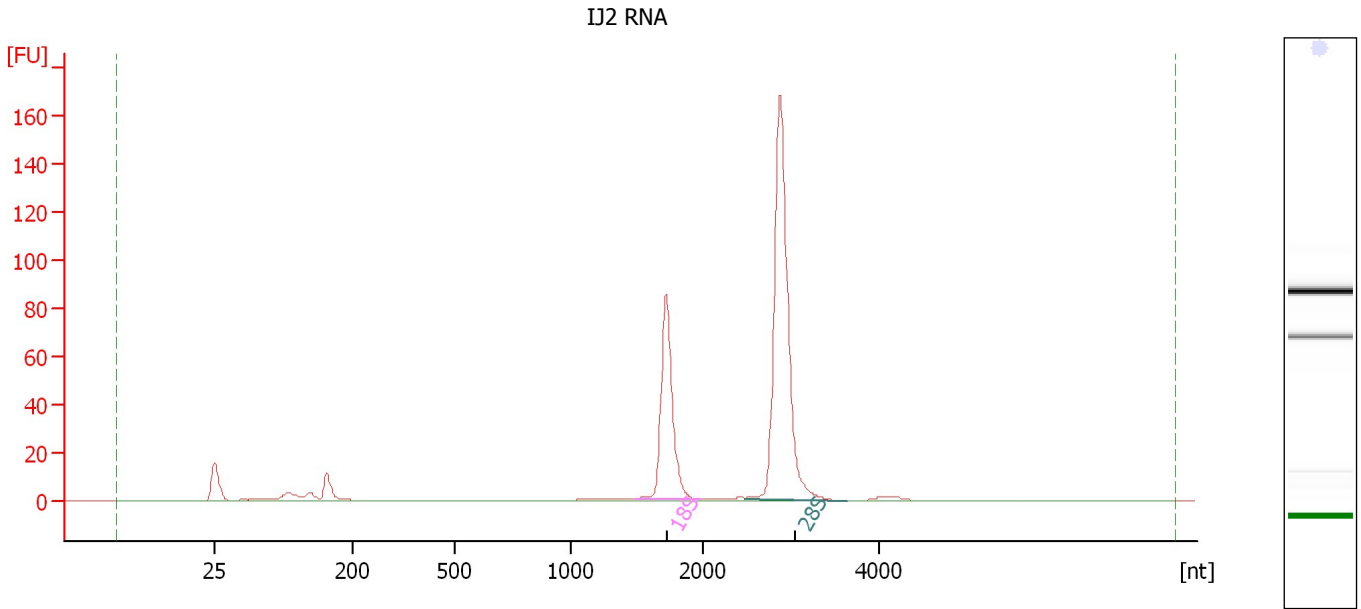
Fragment table for sample 5 : IJ1 RNA

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,559	1,960	446.1	27.8
28S	2,326	3,547	886.1	55.2

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-12\2016-04-12_004.xad

Created: 4/12/2016 2:31:53 PM
 Modified: 4/12/2016 2:57:25 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : IJ2 RNA

RNA Area:	438.8	RNA Integrity Number (RIN):	10 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	5,435 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.1	Result Flagging Label:	RIN:10

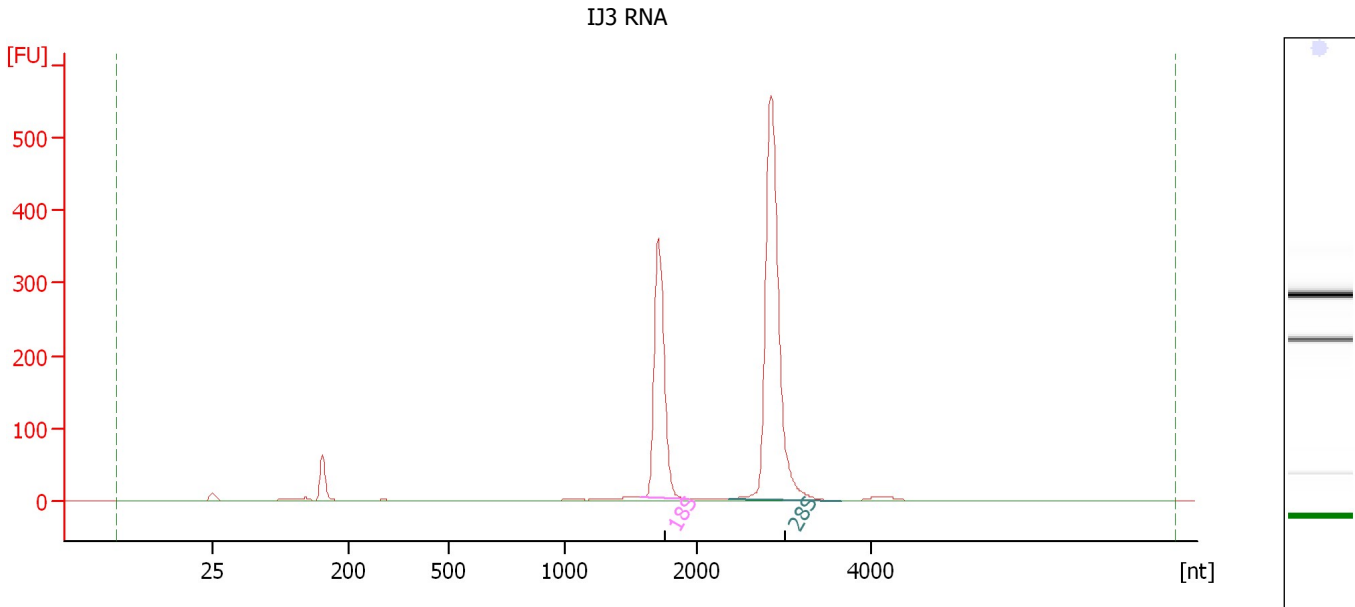
Fragment table for sample 6 : IJ2 RNA

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,491	1,990	113.8	25.9
28S	2,472	3,652	243.0	55.4

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-12\2016-04-12_004.xad

Created: 4/12/2016 2:31:53 PM
 Modified: 4/12/2016 2:57:25 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : IJ3 RNA

RNA Area:	1,428.1	RNA Integrity Number (RIN):	10 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	17,688 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.8	Result Flagging Label:	RIN:10

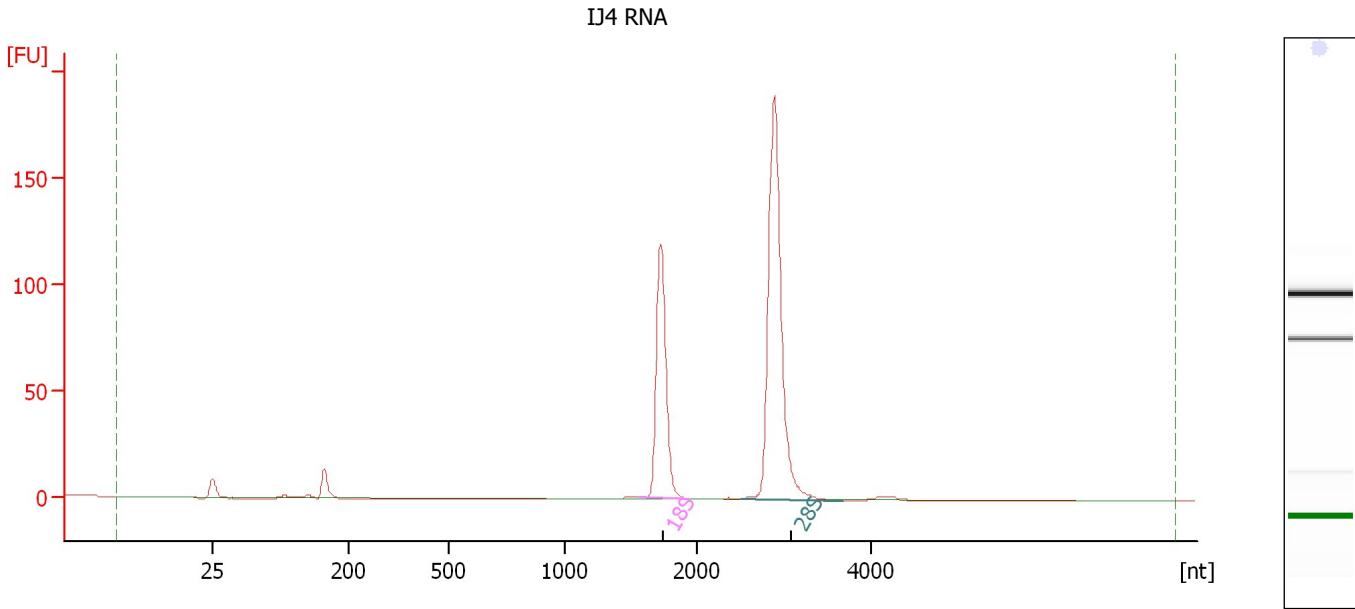
Fragment table for sample 7 : IJ3 RNA

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,584	1,940	423.8	29.7
28S	2,375	3,648	780.6	54.7

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-12\2016-04-12_004.xad

Created: 4/12/2016 2:31:53 PM
 Modified: 4/12/2016 2:57:25 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : IJ4 RNA

RNA Area:	422.1	RNA Integrity Number (RIN):	10 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	5,228 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.9	Result Flagging Label:	RIN:10

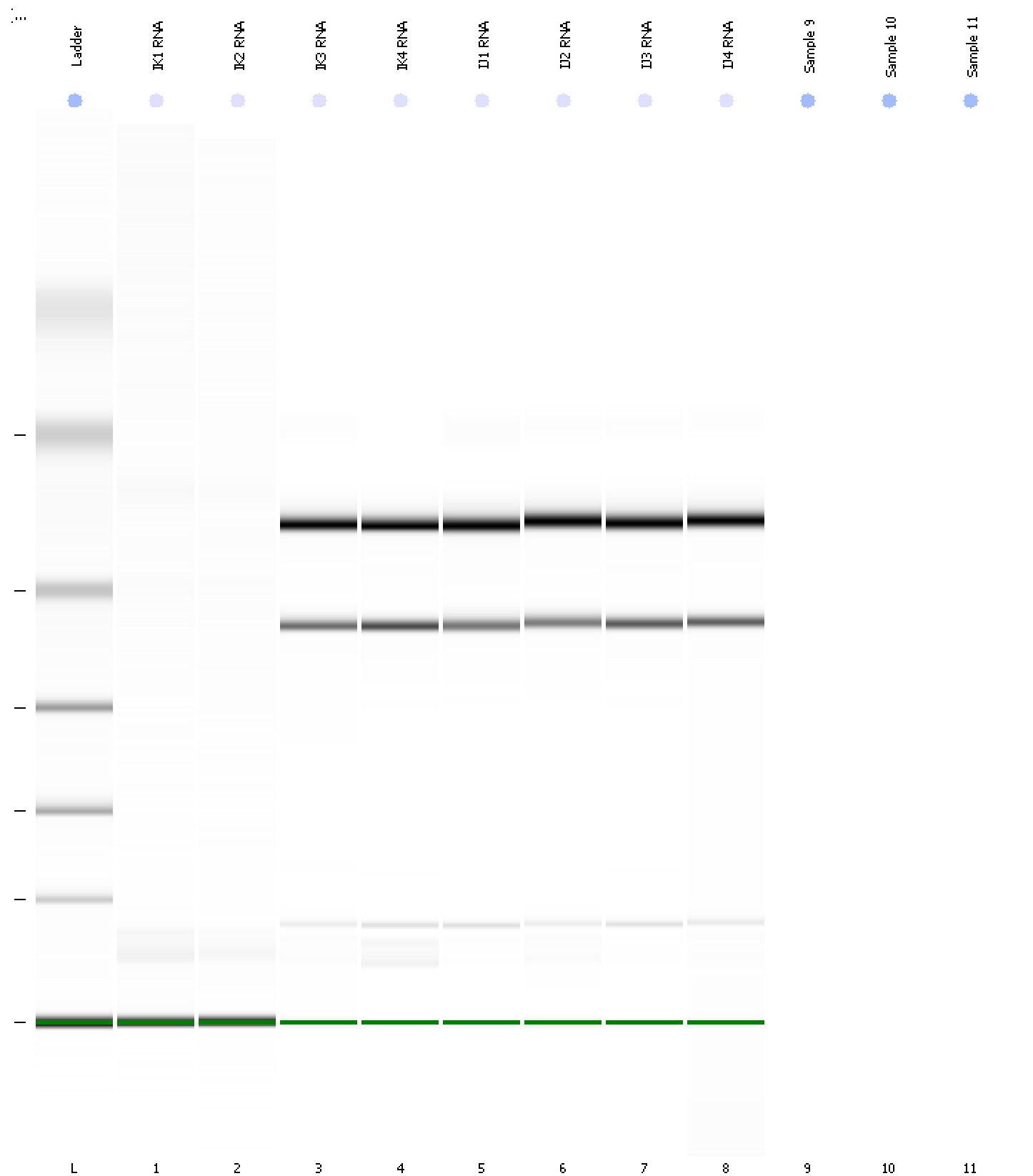
Fragment table for sample 8 : IJ4 RNA

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,559	1,940	135.9	32.2
28S	2,510	3,672	259.5	61.5

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-12\2016-04-12_004.xad

Created: 4/12/2016 2:31:53 PM
Modified: 4/12/2016 2:57:25 PM

Gel Image

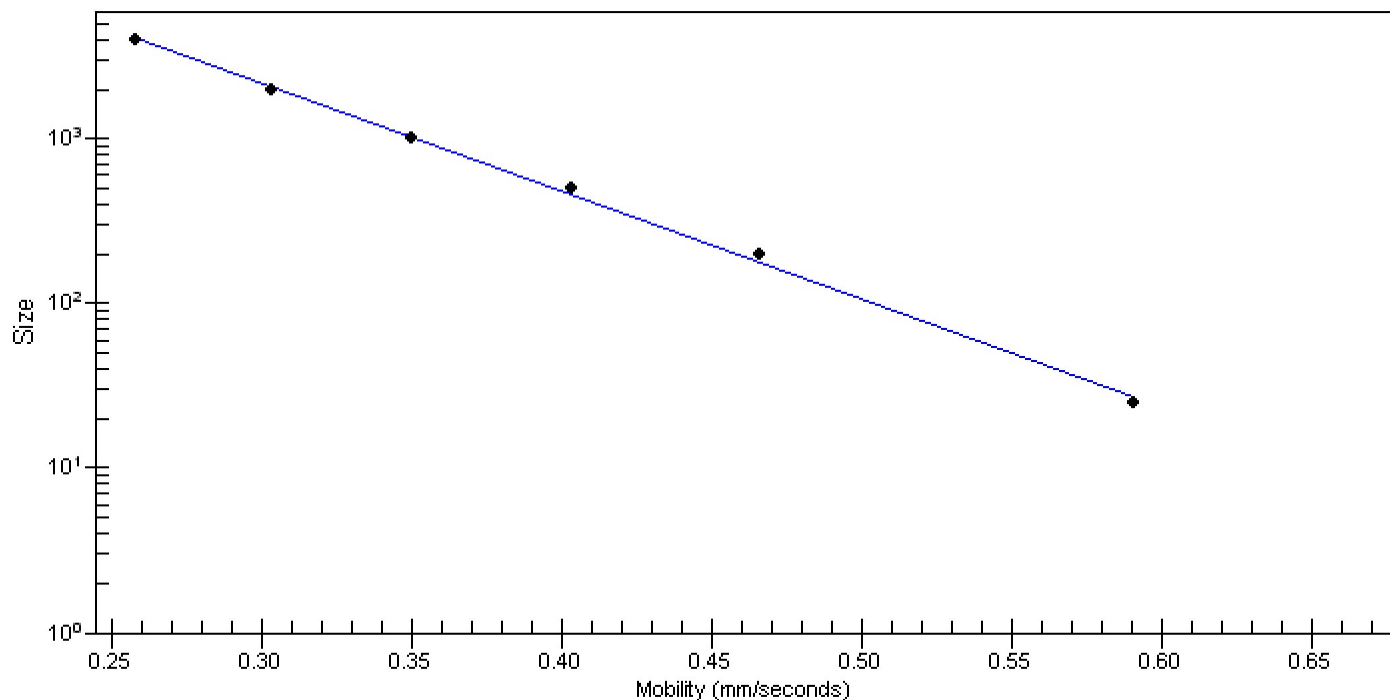


Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-12\2016-04-12_004.xad

Created: 4/12/2016 2:31:53 PM
Modified: 4/12/2016 2:57:25 PM

Curves

Standard Curve



Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-12\2016-04-12_004.xad

Created: 4/12/2016 2:31:53 PM
Modified: 4/12/2016 2:57:25 PM

Invalid Samples

Sample 9 has not been run, no results available.

Sample 10 has not been run, no results available.

Sample 11 has not been run, no results available.

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-12\2016-04-12_004.xad

Created: 4/12/2016 2:31:53 PM
 Modified: 4/12/2016 2:57:25 PM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 9)		Instrument	Run		4/12/2016 2:50:27 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\2016-04-12\2016-04-12_004.xad)		Instrument	Run		4/12/2016 2:31:58 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		4/12/2016 2:31:58 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		4/12/2016 2:31:58 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		4/12/2016 2:31:58 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		4/12/2016 2:31:58 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		4/12/2016 2:31:58 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		4/12/2016 2:31:58 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1