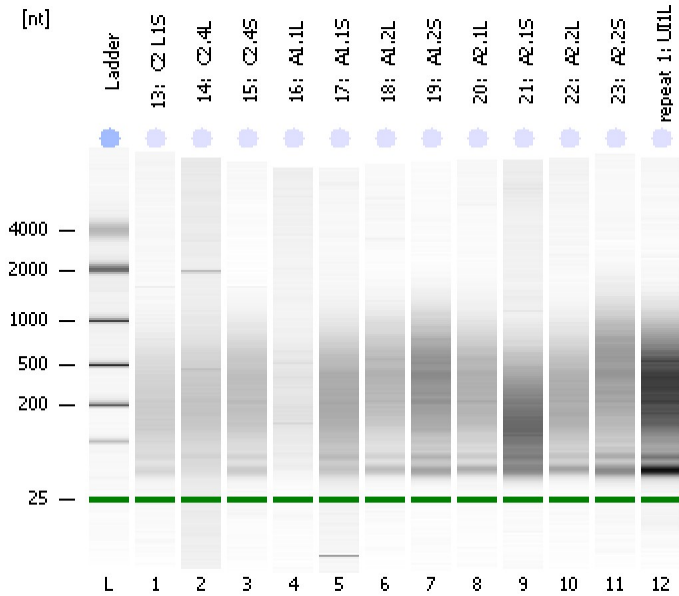


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-02\2015-04-02_002.xad

Created: 4/2/2015 12:38:05 PM
Modified: 4/2/2015 3:32:11 PM

Electrophoresis File Run Summary



Instrument Information:

Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

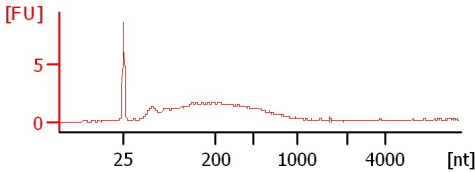
Assay Information:

Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\RNA\Eukaryote Total RNA 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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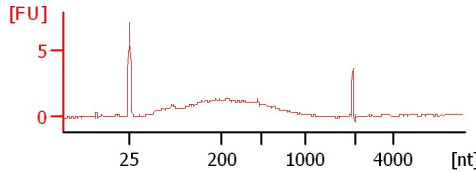
Chip Information:

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

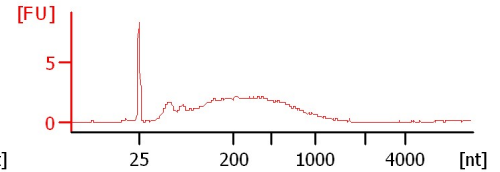
13: C2.L1S
HiSeq_086 Total RNA QC
RIN: 1.90



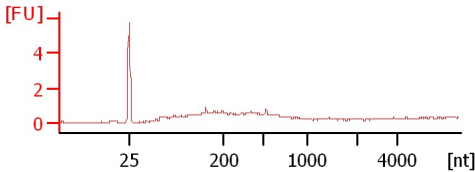
14: C2.4L
HiSeq_086 Total RNA QC
RIN: 2.70



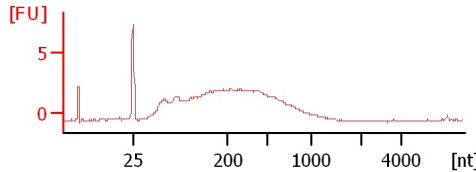
15: C2.4S
HiSeq_086 Total RNA QC
RIN: 2.20



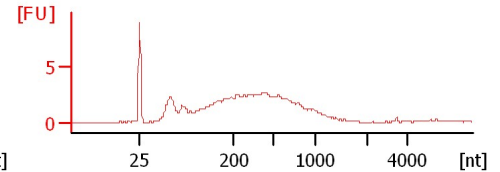
16: A1.1L
HiSeq_086 Total RNA QC
RIN: 1.40



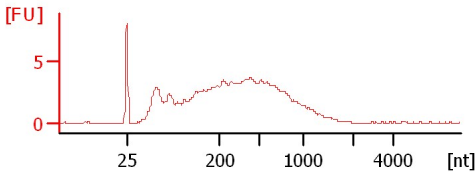
17: A1.1S
HiSeq_086 Total RNA QC
RIN: 2.30



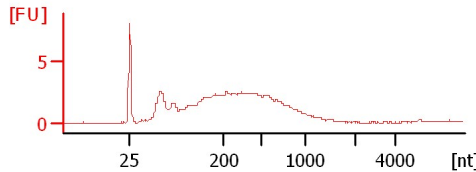
18: A1.2L
HiSeq_086 Total RNA QC
RIN: 2.40



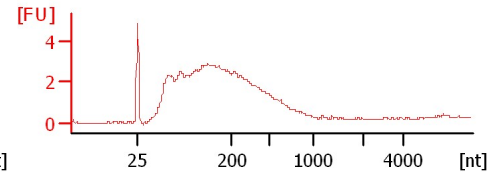
19: A1.2S
HiSeq_086 Total RNA QC
RIN: 2.30



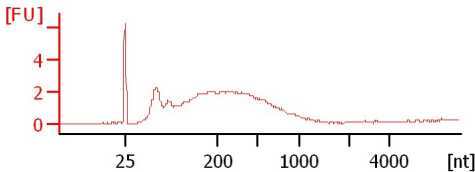
20: A2.1L
HiSeq_086 Total RNA QC
RIN: 2.30



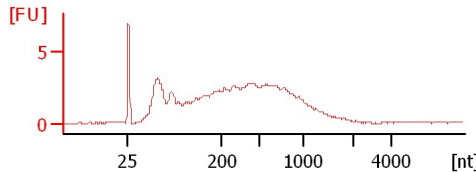
21: A2.1S
HiSeq_086 Total RNA QC
RIN: 2.20



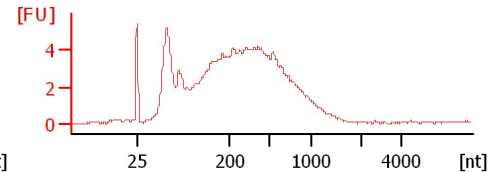
22: A2.2L
HiSeq_086 Total RNA QC
RIN: 2.30



23: A2.2S
HiSeq_086 Total RNA QC
RIN: 2.30



repeat 1: UI1L
HiSeq_086 Total RNA QC
RIN: 2.50



Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-02\2015-04-02_002.xad

Created: 4/2/2015 12:38:05 PM
Modified: 4/2/2015 3:32:11 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
13: C2 L1S	HiSeq_086 Total RNA QC	✓	RIN: 1.90	
14: C2.4L	HiSeq_086 Total RNA QC	✓	RIN: 2.70	
15: C2.4S	HiSeq_086 Total RNA QC	✓	RIN: 2.20	
16: A1.1L	HiSeq_086 Total RNA QC	✓	RIN: 1.40	
17: A1.1S	HiSeq_086 Total RNA QC	✓	RIN: 2.30	
18: A1.2L	HiSeq_086 Total RNA QC	✓	RIN: 2.40	
19: A1.2S	HiSeq_086 Total RNA QC	✓	RIN: 2.30	
20: A2.1L	HiSeq_086 Total RNA QC	✓	RIN: 2.30	
21: A2.1S	HiSeq_086 Total RNA QC	✓	RIN: 2.20	
22: A2.2L	HiSeq_086 Total RNA QC	✓	RIN: 2.30	
23: A2.2S	HiSeq_086 Total RNA QC	✓	RIN: 2.30	
repeat 1: UI1L	HiSeq_086 Total RNA QC	✓	RIN: 2.50	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-02\2015-04-02_002.xad

Created: 4/2/2015 12:38:05 PM
Modified: 4/2/2015 3:32:11 PM

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

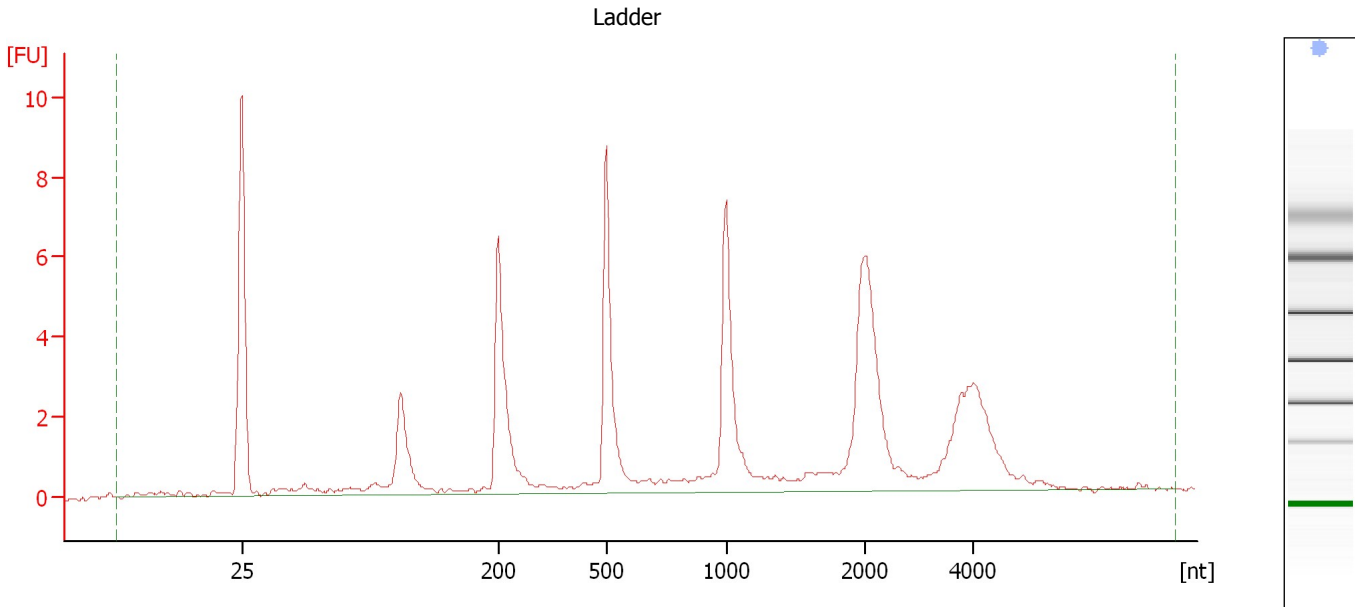
Ladder

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

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-02\2015-04-02_002.xad

Created: 4/2/2015 12:38:05 PM
Modified: 4/2/2015 3:32:11 PM

Electropherogram Summary



Overall Results for Ladder

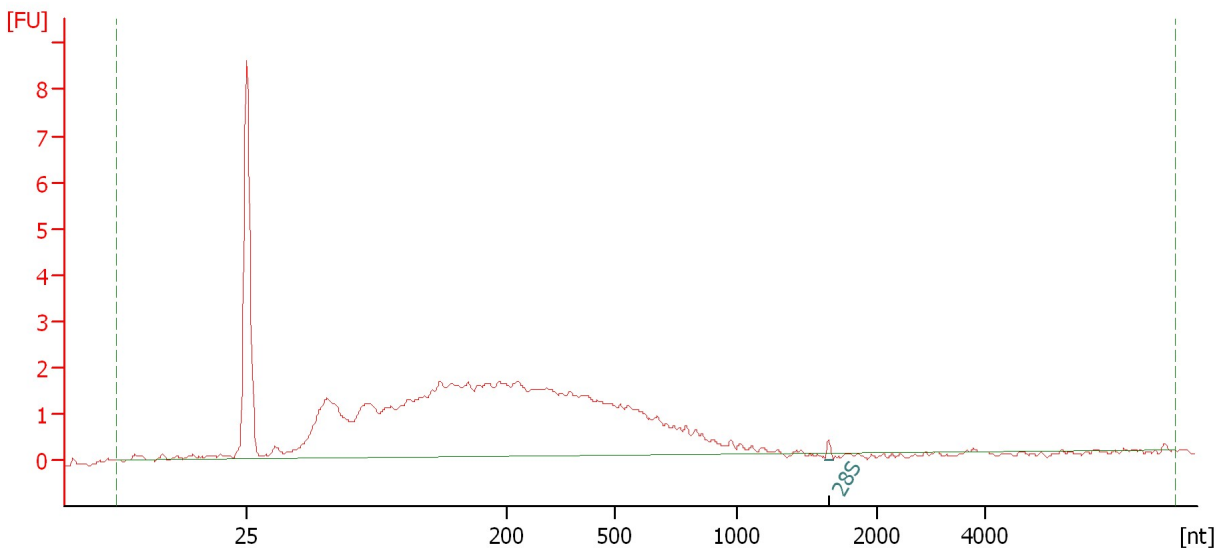
RNA Area:	68.2	Result Flagging Color:	
RNA Concentration:	150 ng/μl	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-02\2015-04-02_002.xad

Created: 4/2/2015 12:38:05 PM
Modified: 4/2/2015 3:32:11 PM

Electropherogram Summary Continued ...

13: C2 L1S [HiSeq_086 Total RNA QC]



Overall Results for sample 1 : 13: C2 L1S

RNA Area:	62.6	RNA Integrity Number (RIN):	1.9 (B.02.08)
RNA Concentration:	138 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 1.90

Fragment table for sample 1 : 13: C2 L1S

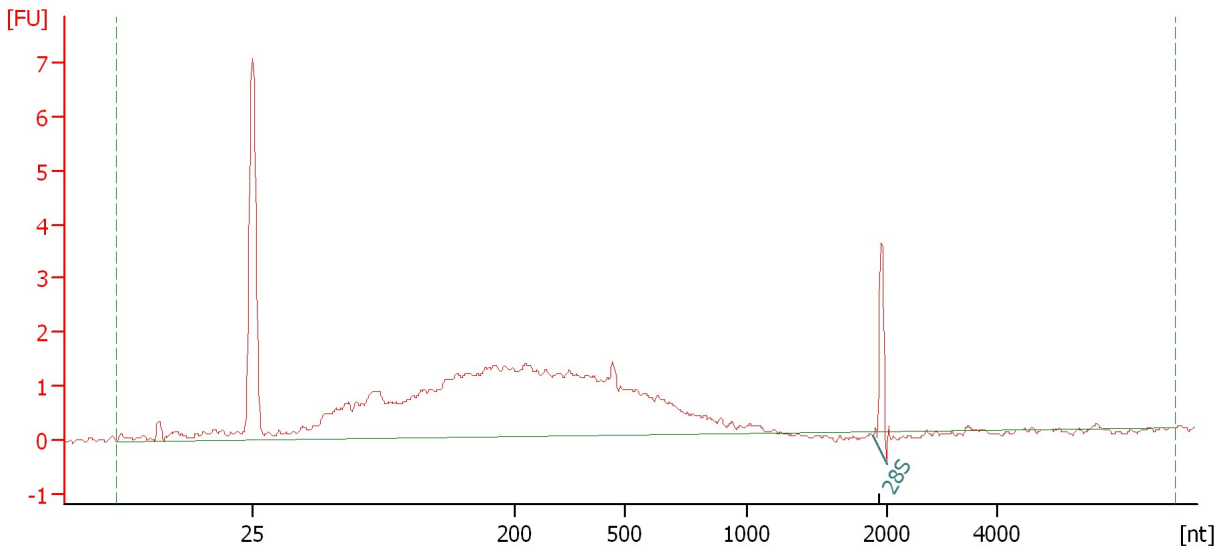
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
28S	1,636	1,697	0.2	0.3

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-02\2015-04-02_002.xad

Created: 4/2/2015 12:38:05 PM
Modified: 4/2/2015 3:32:11 PM

Electropherogram Summary Continued ...

14: C2.4L [HiSeq_086 Total RNA QC]



Overall Results for sample 2 : 14: C2.4L

RNA Area:	48.7	RNA Integrity Number (RIN):	2.7 (B.02.08)
RNA Concentration:	107 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.70

Fragment table for sample 2 : 14: C2.4L

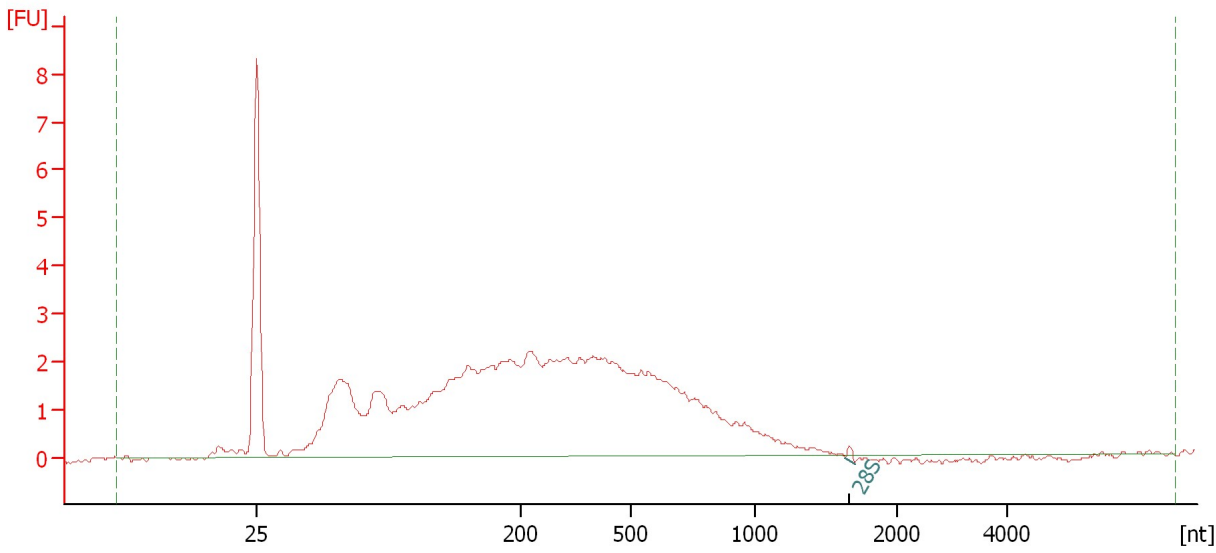
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
28S	1,890	1,988	1.6	3.3

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-02\2015-04-02_002.xad

Created: 4/2/2015 12:38:05 PM
Modified: 4/2/2015 3:32:11 PM

Electropherogram Summary Continued ...

15: C2.4S [HiSeq_086 Total RNA QC]



Overall Results for sample 3 : 15: C2.4S

RNA Area:	83.0	RNA Integrity Number (RIN):	2.2 (B.02.08)
RNA Concentration:	183 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.20

Fragment table for sample 3 : 15: C2.4S

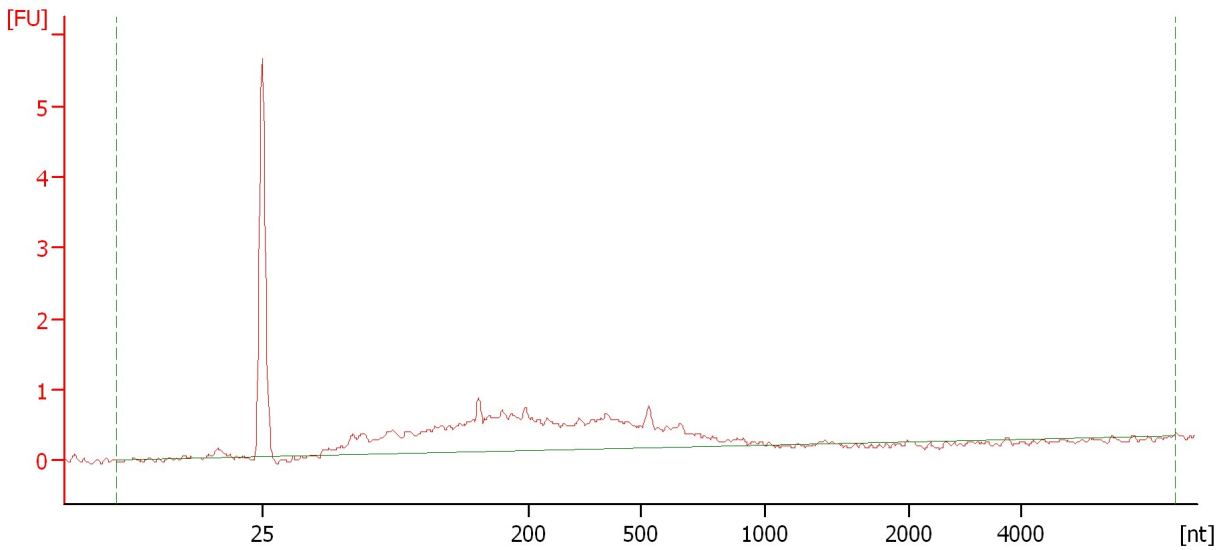
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
28S	1,639	1,699	0.1	0.2

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-02\2015-04-02_002.xad

Created: 4/2/2015 12:38:05 PM
Modified: 4/2/2015 3:32:11 PM

Electropherogram Summary Continued ...

16: A1.1L [HiSeq_086 Total RNA QC]



Overall Results for sample 4 : 16: A1.1L

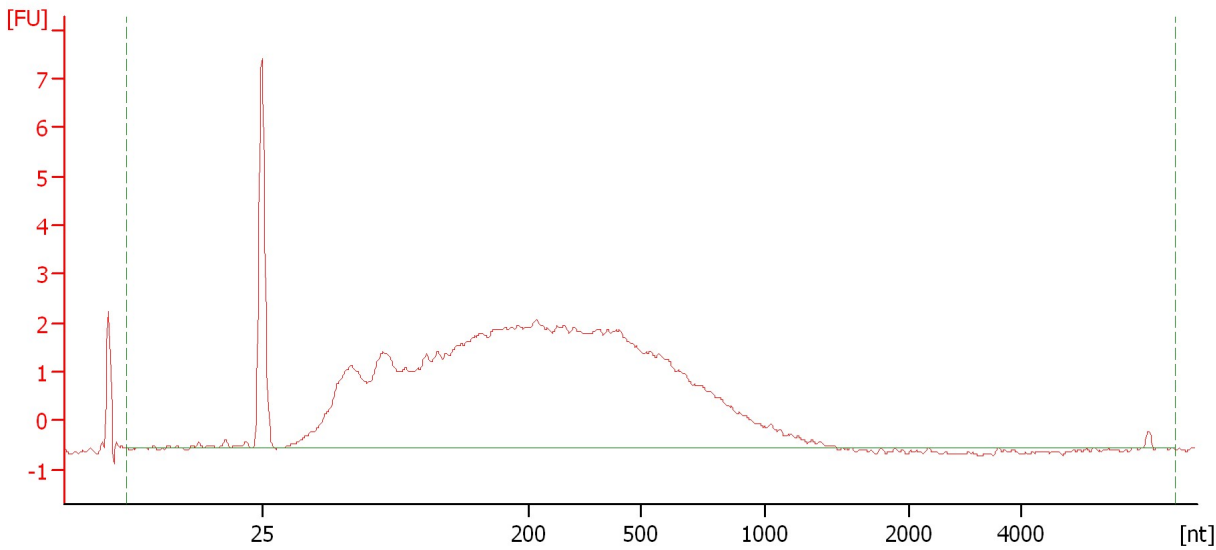
RNA Area:	16.8	RNA Integrity Number (RIN):	1.4 (B.02.08)
RNA Concentration:	37 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 1.40

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-02\2015-04-02_002.xad

Created: 4/2/2015 12:38:05 PM
Modified: 4/2/2015 3:32:11 PM

Electropherogram Summary Continued ...

17: A1.1S [HiSeq_086 Total RNA QC]



Overall Results for sample 5 : 17: A1.1S

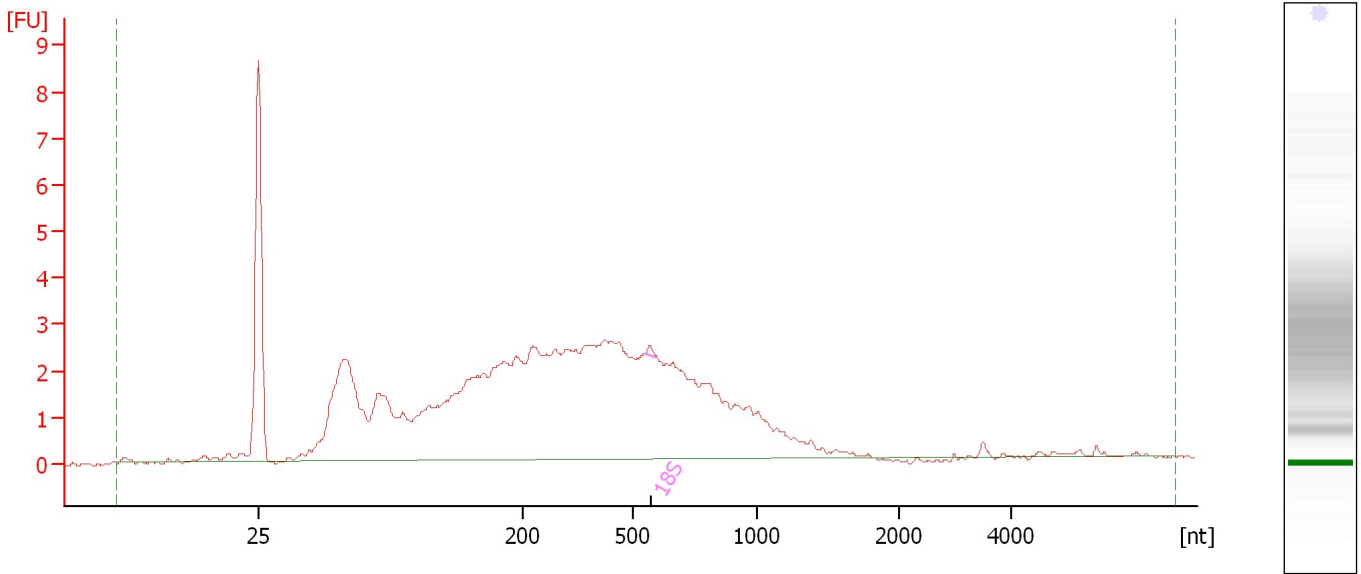
RNA Area:	102.8	RNA Integrity Number (RIN):	2.3 (B.02.08)
RNA Concentration:	226 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.30

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-02\2015-04-02_002.xad

Created: 4/2/2015 12:38:05 PM
Modified: 4/2/2015 3:32:11 PM

Electropherogram Summary Continued ...

18: A1.2L [HiSeq_086 Total RNA QC]



Overall Results for sample 6 : 18: A1.2L

RNA Area:	97.7	RNA Integrity Number (RIN):	2.4 (B.02.08)
RNA Concentration:	215 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.40

Fragment table for sample 6 : 18: A1.2L

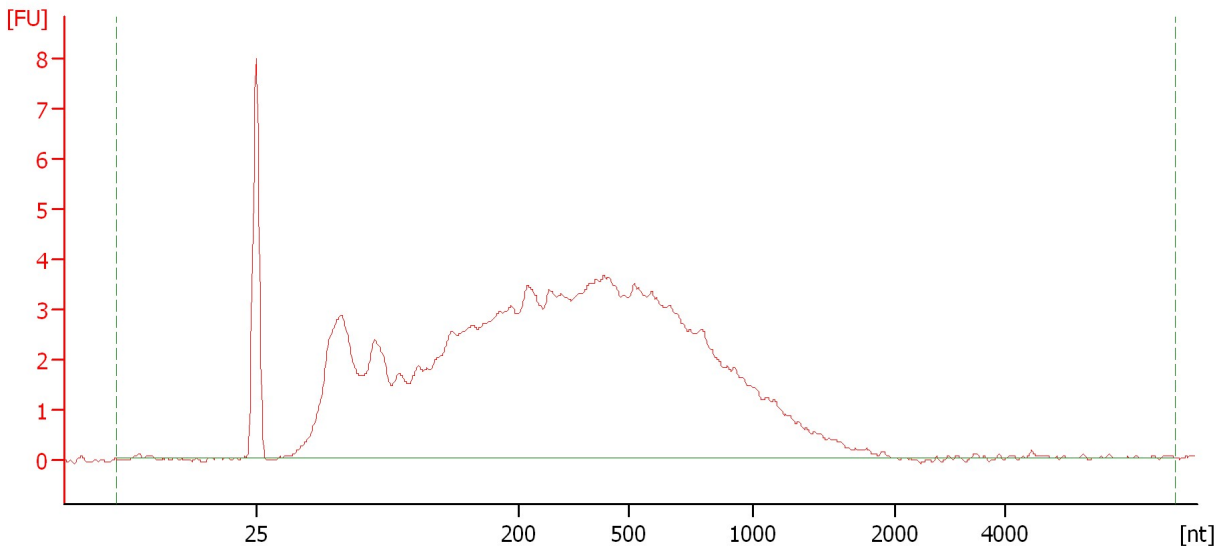
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	547	599	0.1	0.1

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-02\2015-04-02_002.xad

Created: 4/2/2015 12:38:05 PM
Modified: 4/2/2015 3:32:11 PM

Electropherogram Summary Continued ...

19: A1.2S [HiSeq_086 Total RNA QC]



Overall Results for sample 7 : 19: A1.2S

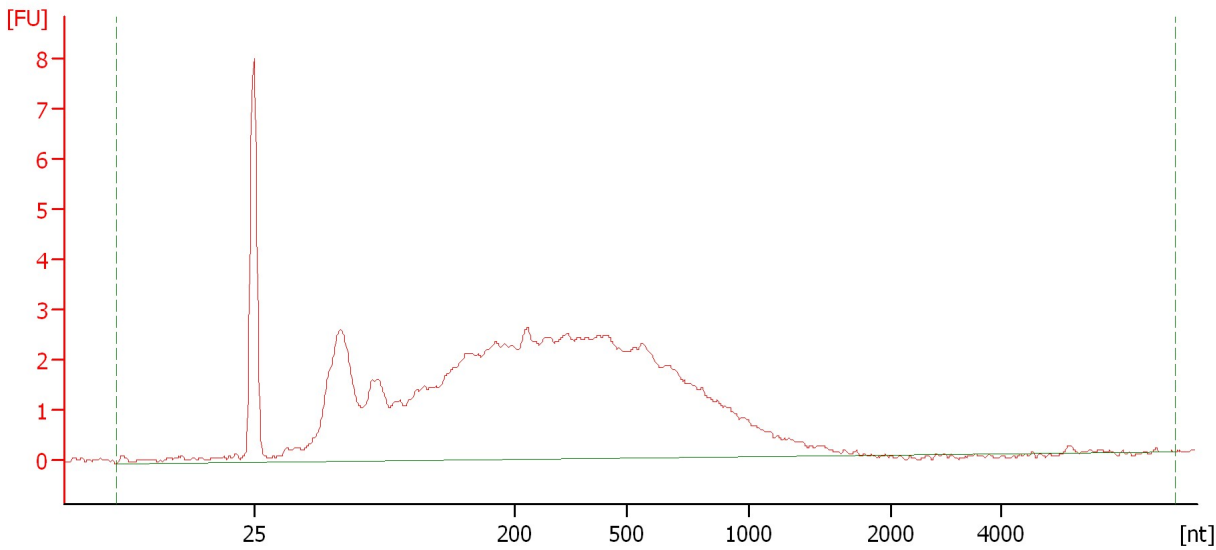
RNA Area:	144.0	RNA Integrity Number (RIN):	2.3 (B.02.08)
RNA Concentration:	317 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.30

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-02\2015-04-02_002.xad

Created: 4/2/2015 12:38:05 PM
Modified: 4/2/2015 3:32:11 PM

Electropherogram Summary Continued ...

20: A2.1L [HiSeq_086 Total RNA QC]



Overall Results for sample 8 : 20: A2.1L

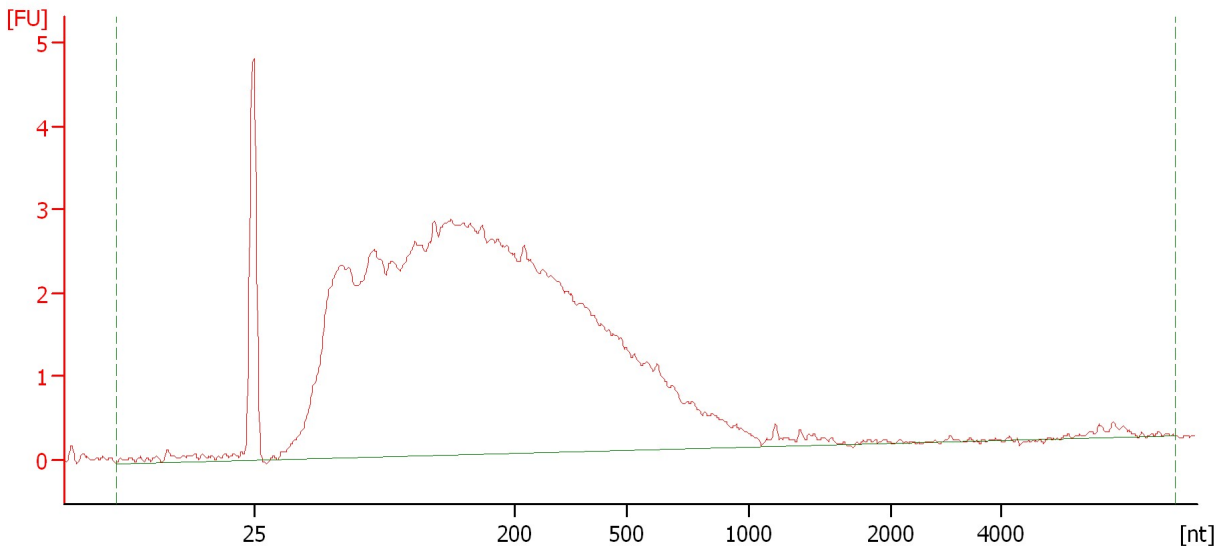
RNA Area:	103.7	RNA Integrity Number (RIN):	2.3 (B.02.08)
RNA Concentration:	228 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.30

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-02\2015-04-02_002.xad

Created: 4/2/2015 12:38:05 PM
Modified: 4/2/2015 3:32:11 PM

Electropherogram Summary Continued ...

21: A2.1S [HiSeq_086 Total RNA QC]



Overall Results for sample 9 : 21: A2.1S

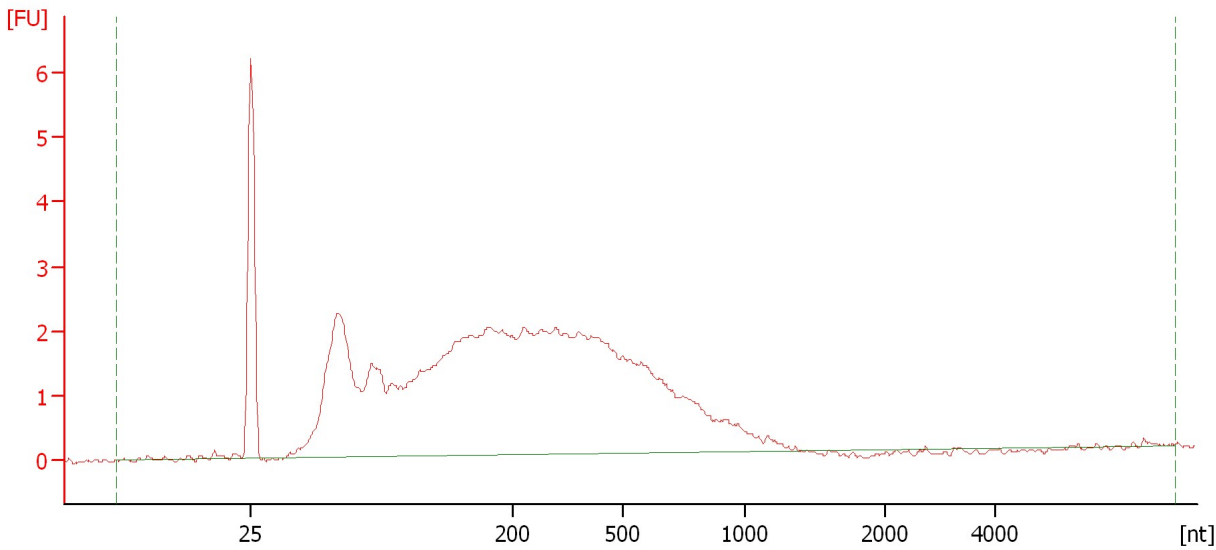
RNA Area:	103.4	RNA Integrity Number (RIN):	2.2 (B.02.08)
RNA Concentration:	228 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.20

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-02\2015-04-02_002.xad

Created: 4/2/2015 12:38:05 PM
Modified: 4/2/2015 3:32:11 PM

Electropherogram Summary Continued ...

22: A2.2L [HiSeq_086 Total RNA QC]



Overall Results for sample 10 : 22: A2.2L

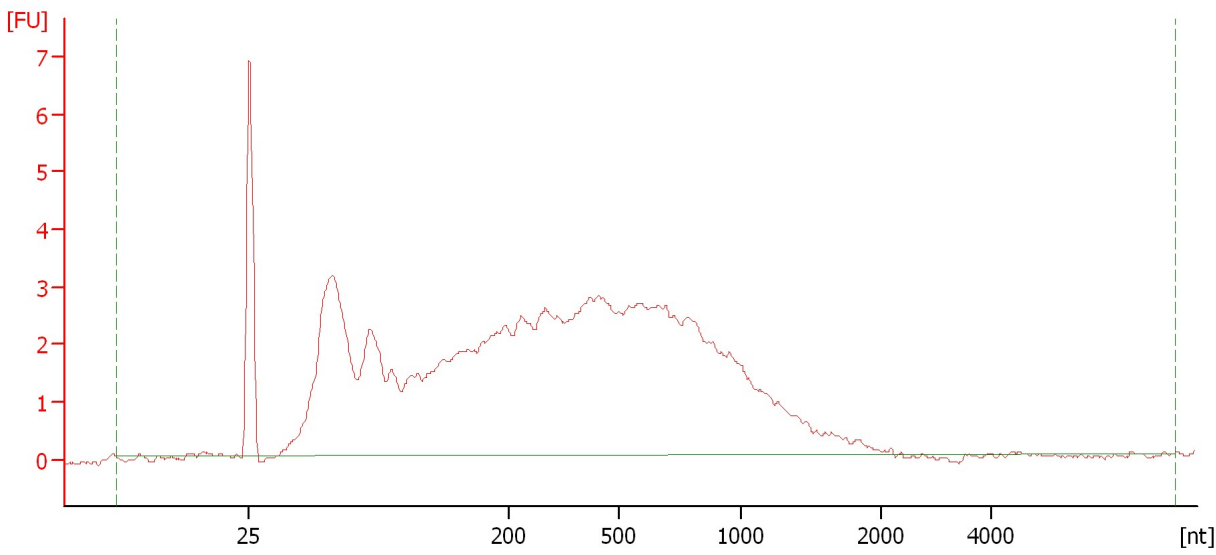
RNA Area:	76.5	RNA Integrity Number (RIN):	2.3 (B.02.08)
RNA Concentration:	168 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.30

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-02\2015-04-02_002.xad

Created: 4/2/2015 12:38:05 PM
Modified: 4/2/2015 3:32:11 PM

Electropherogram Summary Continued ...

23: A2.2S [HiSeq_086 Total RNA QC]



Overall Results for sample 11 : 23: A2.2S

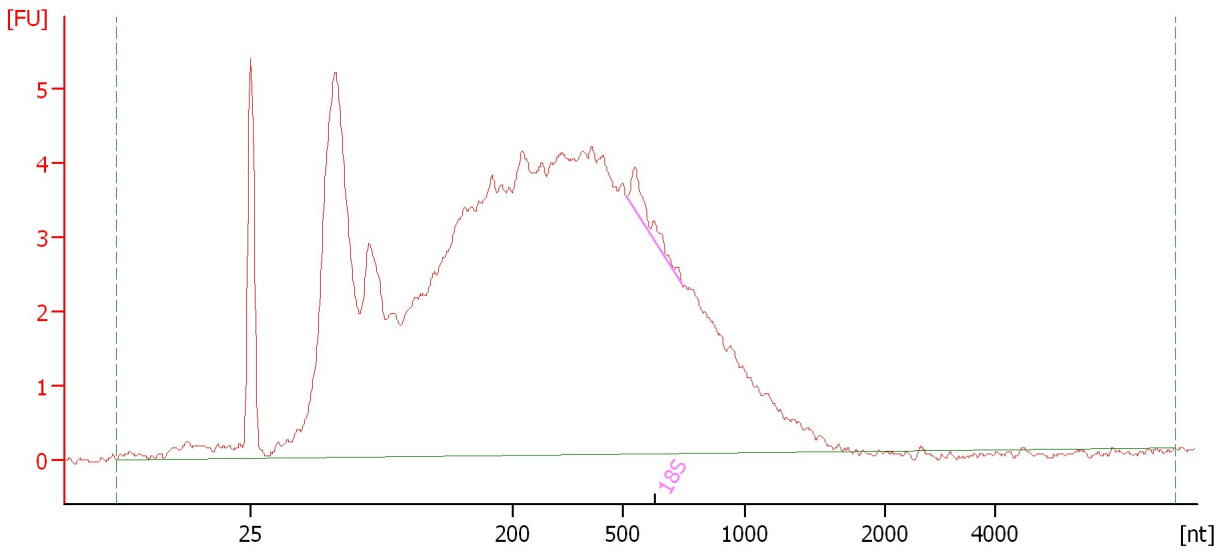
RNA Area:	120.4	RNA Integrity Number (RIN):	2.3 (B.02.08)
RNA Concentration:	265 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.30

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-02\2015-04-02_002.xad

Created: 4/2/2015 12:38:05 PM
Modified: 4/2/2015 3:32:11 PM

Electropherogram Summary Continued ...

repeat 1: UI1L [HiSeq_086 Total RNA QC]



Overall Results for sample 12 : repeat 1: UI1L

RNA Area:	170.7	RNA Integrity Number (RIN):	2.5 (B.02.08)
RNA Concentration:	376 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.50

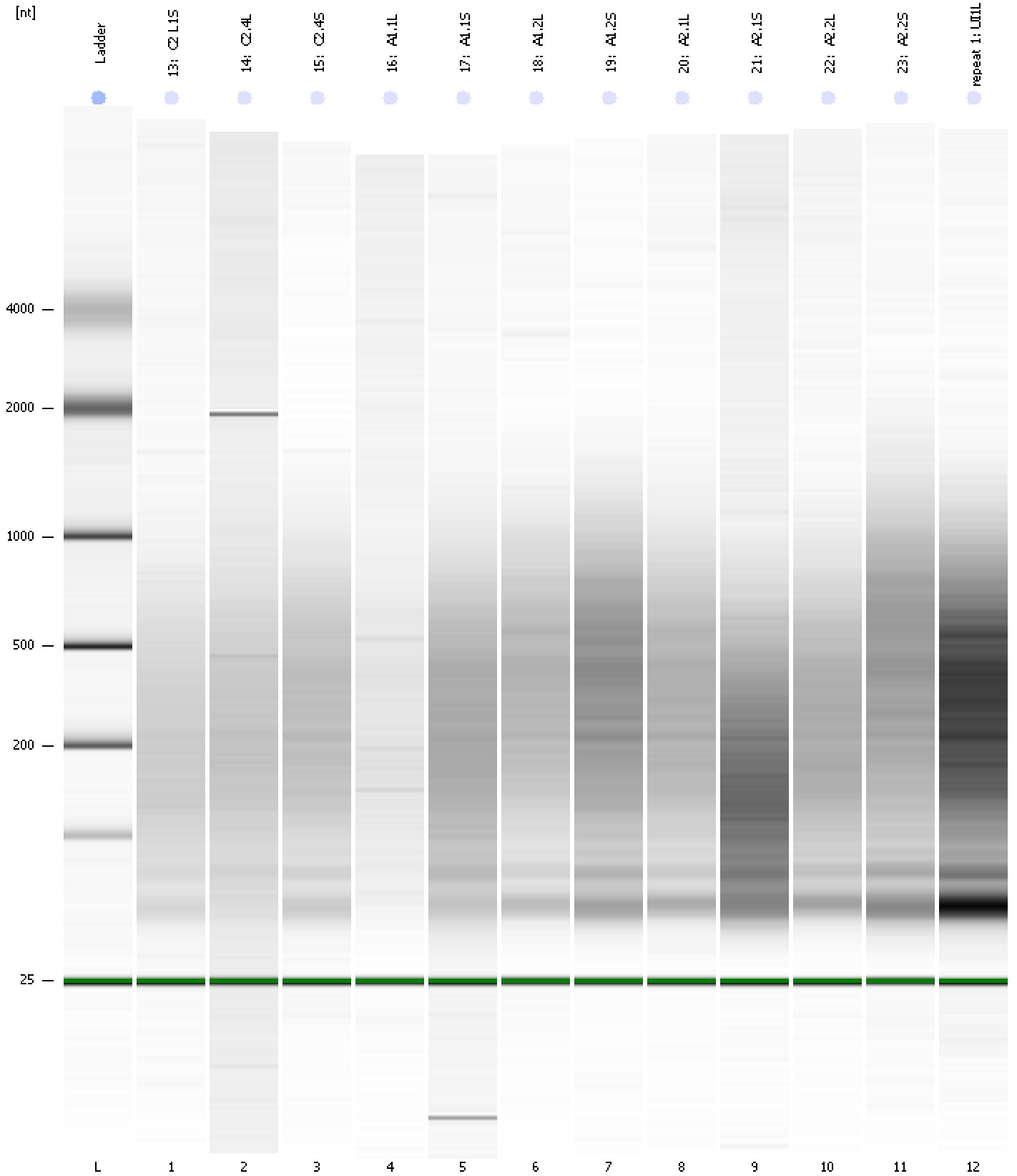
Fragment table for sample 12 : repeat 1: UI1L

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	521	745	1.2	0.7

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-02\2015-04-02_002.xad

Created: 4/2/2015 12:38:05 PM
Modified: 4/2/2015 3:32:11 PM

Gel Image

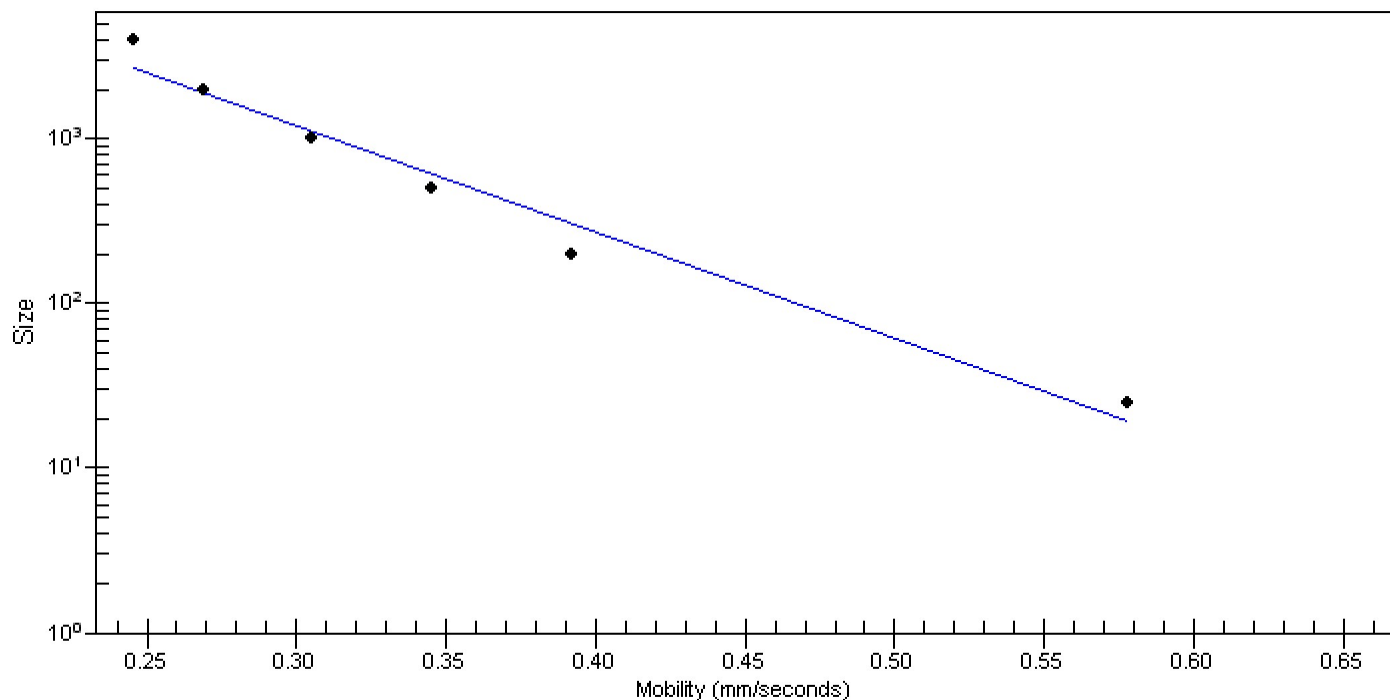


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-02\2015-04-02_002.xad

Created: 4/2/2015 12:38:05 PM
Modified: 4/2/2015 3:32:11 PM

Curves

Standard Curve



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-02\2015-04-02_002.xad

Created: 4/2/2015 12:38:05 PM
 Modified: 4/2/2015 3:32:11 PM

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		4/2/2015 1:01:07 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2015-04-02\2015-04-02_002.xad)		Instrument	Run		4/2/2015 12:38:10 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		4/2/2015 12:38:10 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		4/2/2015 12:38:10 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		4/2/2015 12:38:10 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		4/2/2015 12:38:10 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		4/2/2015 12:38:10 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		4/2/2015 12:38:10 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1