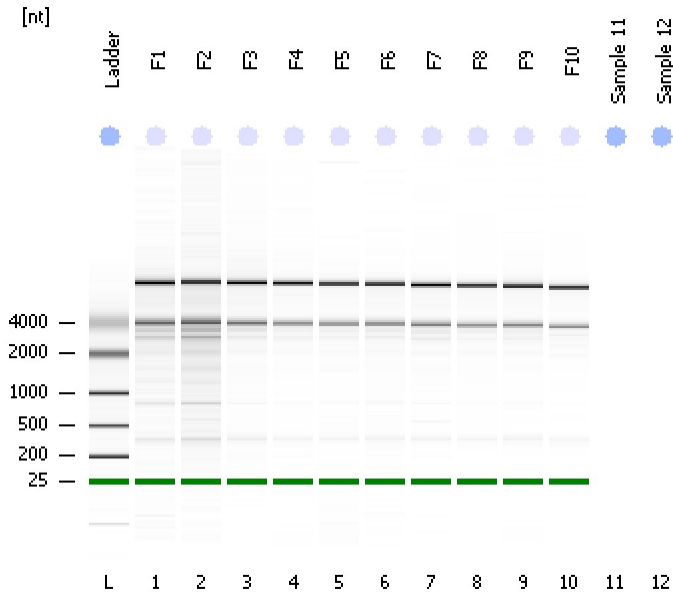


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-21\2014-10-21_001.xad

Created: 10/21/2014 12:45:33 PM
Modified: 10/21/2014 1:09:23 PM

Electrophoresis File Run Summary



Instrument Information:

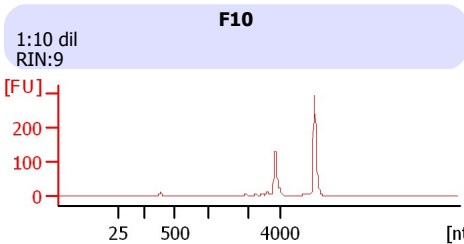
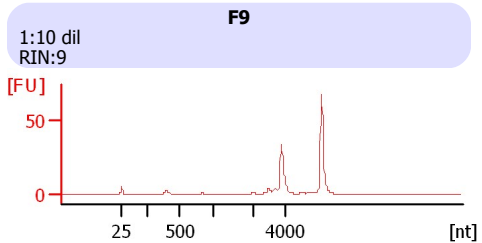
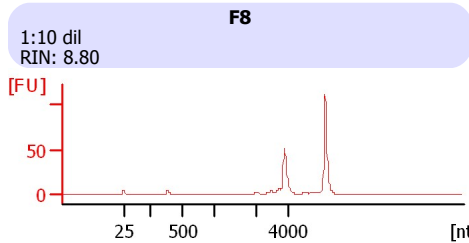
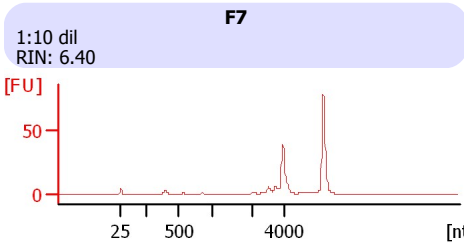
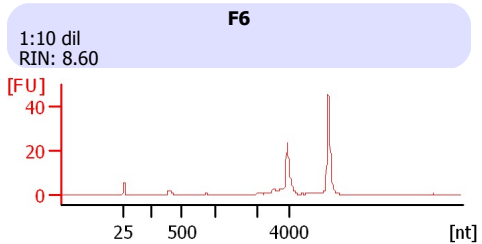
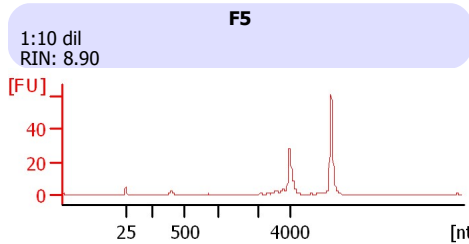
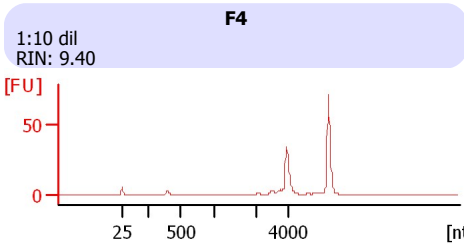
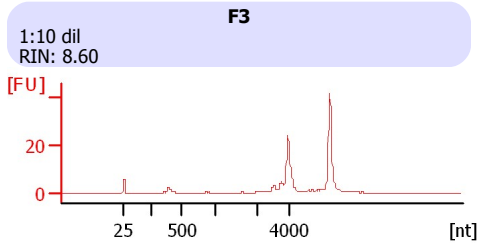
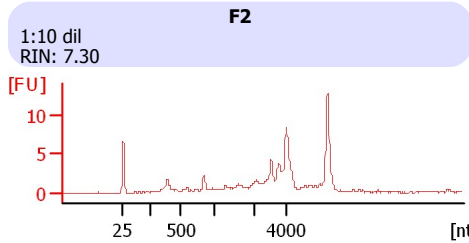
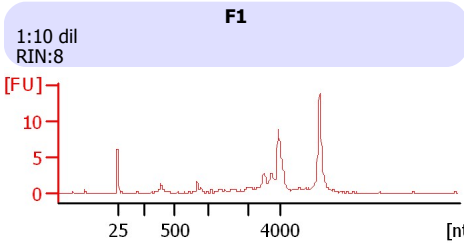
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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:



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-21\2014-10-21_001.xad

Created: 10/21/2014 12:45:33 PM
 Modified: 10/21/2014 1:09:23 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
F1	1:10 dil	✓	RIN:8	
F2	1:10 dil	✓	RIN: 7.30	
F3	1:10 dil	✓	RIN: 8.60	
F4	1:10 dil	✓	RIN: 9.40	
F5	1:10 dil	✓	RIN: 8.90	
F6	1:10 dil	✓	RIN: 8.60	
F7	1:10 dil	✓	RIN: 6.40	
F8	1:10 dil	✓	RIN: 8.80	
F9	1:10 dil	✓	RIN:9	
F10	1:10 dil	✓	RIN:9	
Sample 11				
Sample 12				
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-21\2014-10-21_001.xad

Created: 10/21/2014 12:45:33 PM
Modified: 10/21/2014 1:09:23 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/ 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

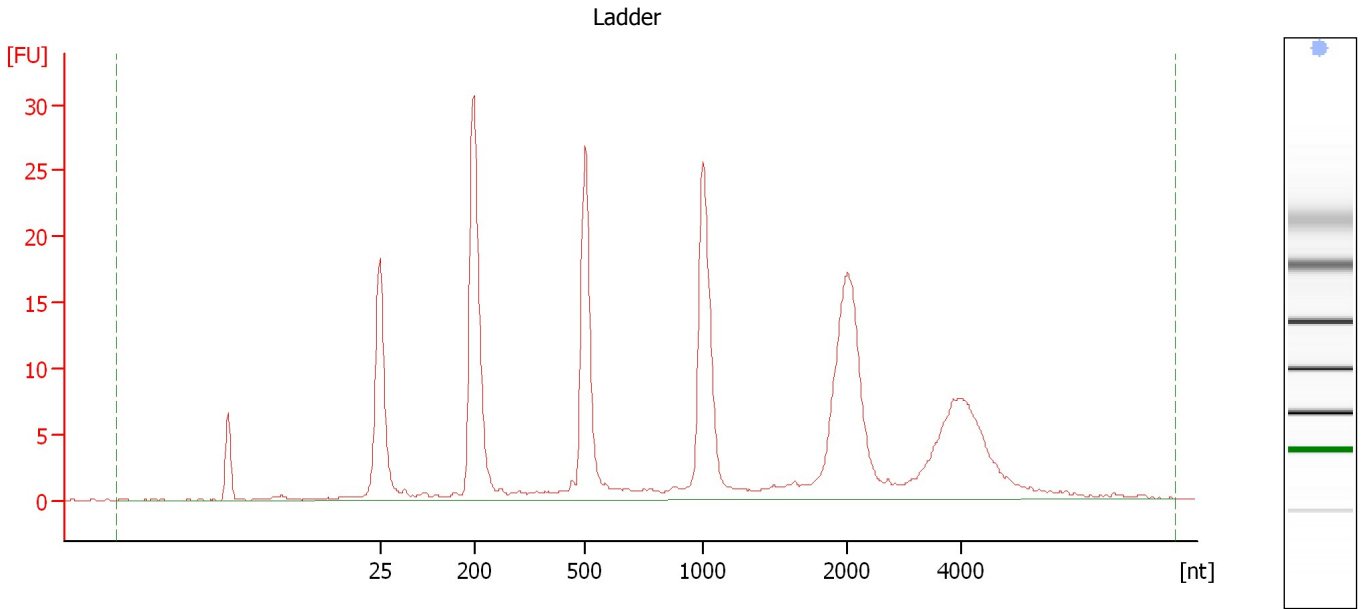
Ladder

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

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-21\2014-10-21_001.xad

Created: 10/21/2014 12:45:33 PM
Modified: 10/21/2014 1:09:23 PM

Electropherogram Summary



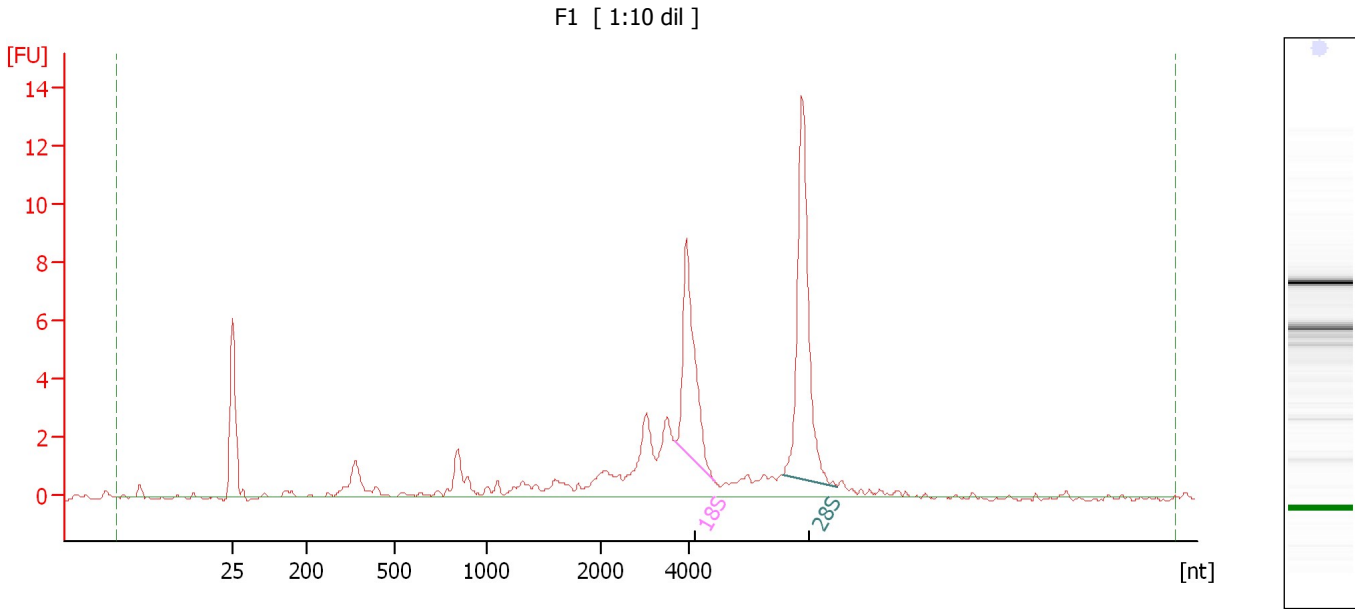
Overall Results for Ladder

RNA Area:	231.9	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\2014-10-21\2014-10-21_001.xad

Created: 10/21/2014 12:45:33 PM
Modified: 10/21/2014 1:09:23 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : F1

RNA Area: 60.3 RNA Integrity Number (RIN): 8 (B.02.08)
RNA Concentration: 39 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.5 Result Flagging Label: RIN:8

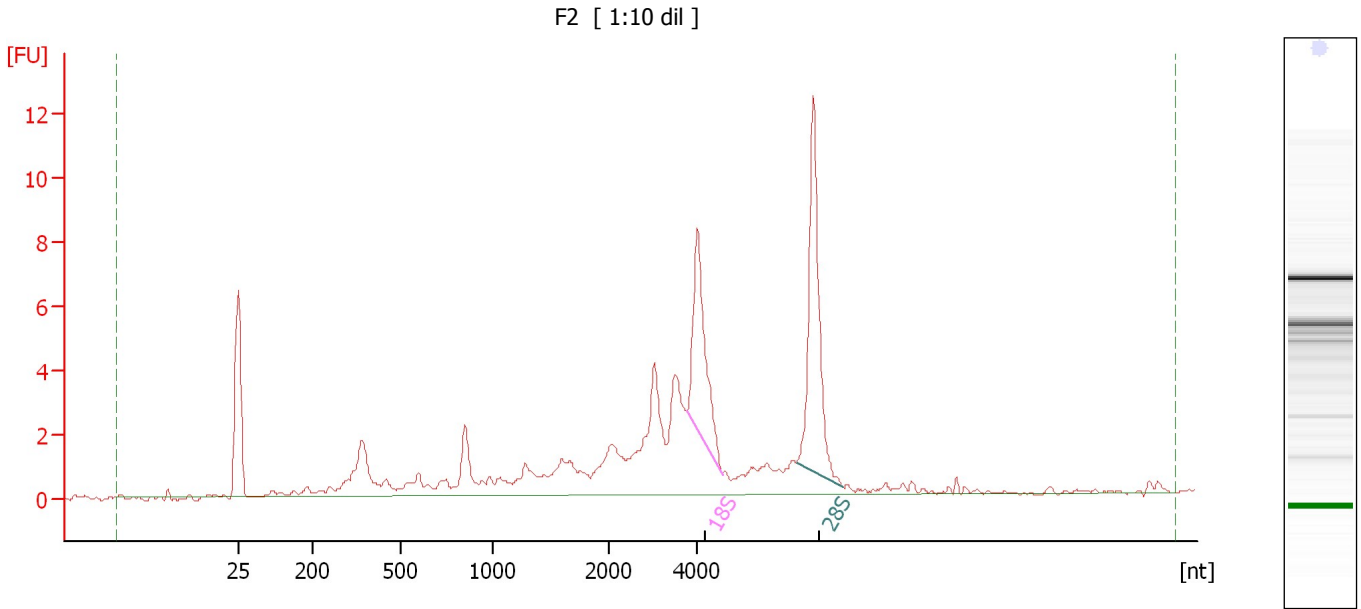
Fragment table for sample 1 : F1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,667	4,557	9.9	16.4
28S	6,120	7,323	14.7	24.4

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-21\2014-10-21_001.xad

Created: 10/21/2014 12:45:33 PM
Modified: 10/21/2014 1:09:23 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : F2

RNA Area:	78.5	RNA Integrity Number (RIN):	7.3 (B.02.08)
RNA Concentration:	51 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.4	Result Flagging Label:	RIN: 7.30

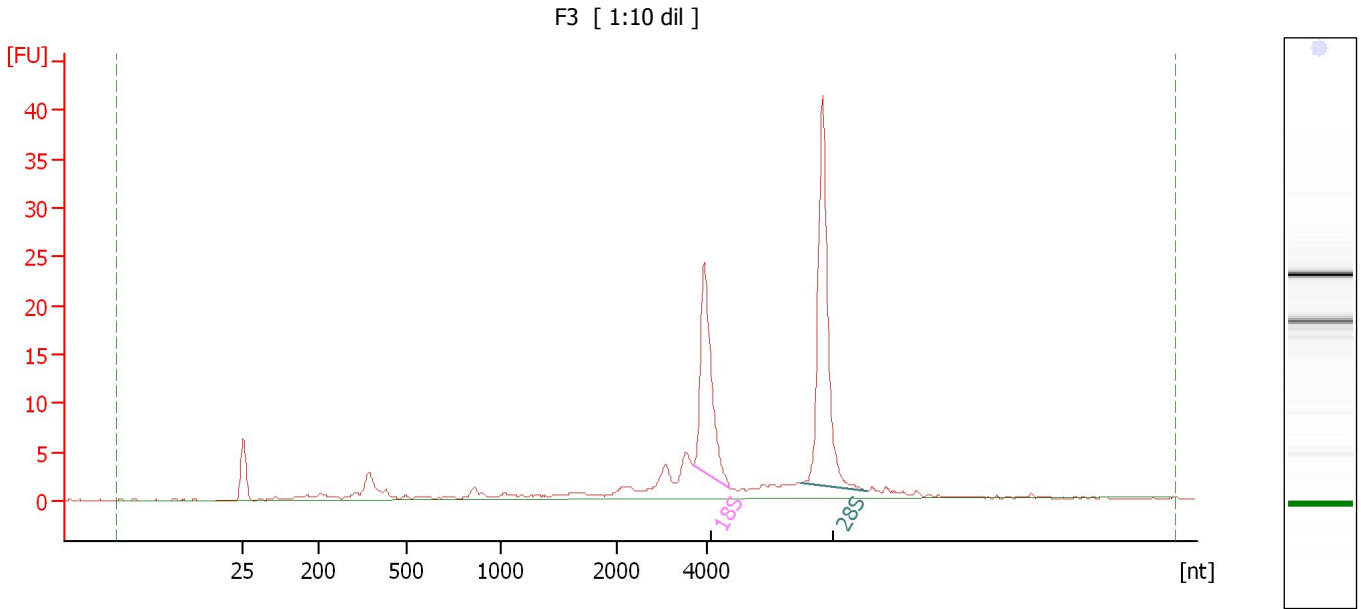
Fragment table for sample 2 : F2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,755	4,566	8.7	11.1
28S	6,212	7,238	12.2	15.6

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-21\2014-10-21_001.xad

Created: 10/21/2014 12:45:33 PM
Modified: 10/21/2014 1:09:23 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : F3

RNA Area:	128.1	RNA Integrity Number (RIN):	8.6 (B.02.08)
RNA Concentration:	83 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.5	Result Flagging Label:	RIN: 8.60

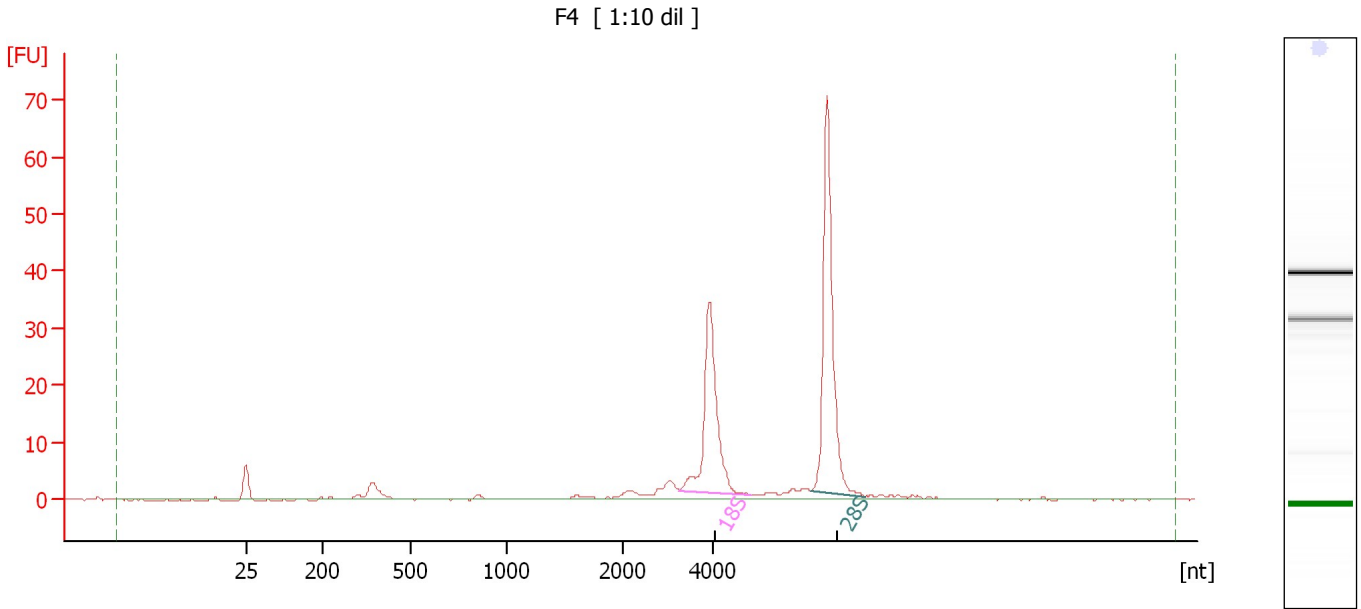
Fragment table for sample 3 : F3

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,680	4,507	26.6	20.7
28S	6,066	7,531	39.4	30.8

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-21\2014-10-21_001.xad

Created: 10/21/2014 12:45:33 PM
Modified: 10/21/2014 1:09:23 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : F4

RNA Area:	160.5	RNA Integrity Number (RIN):	9.4 (B.02.08)
RNA Concentration:	104 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.4	Result Flagging Label:	RIN: 9.40

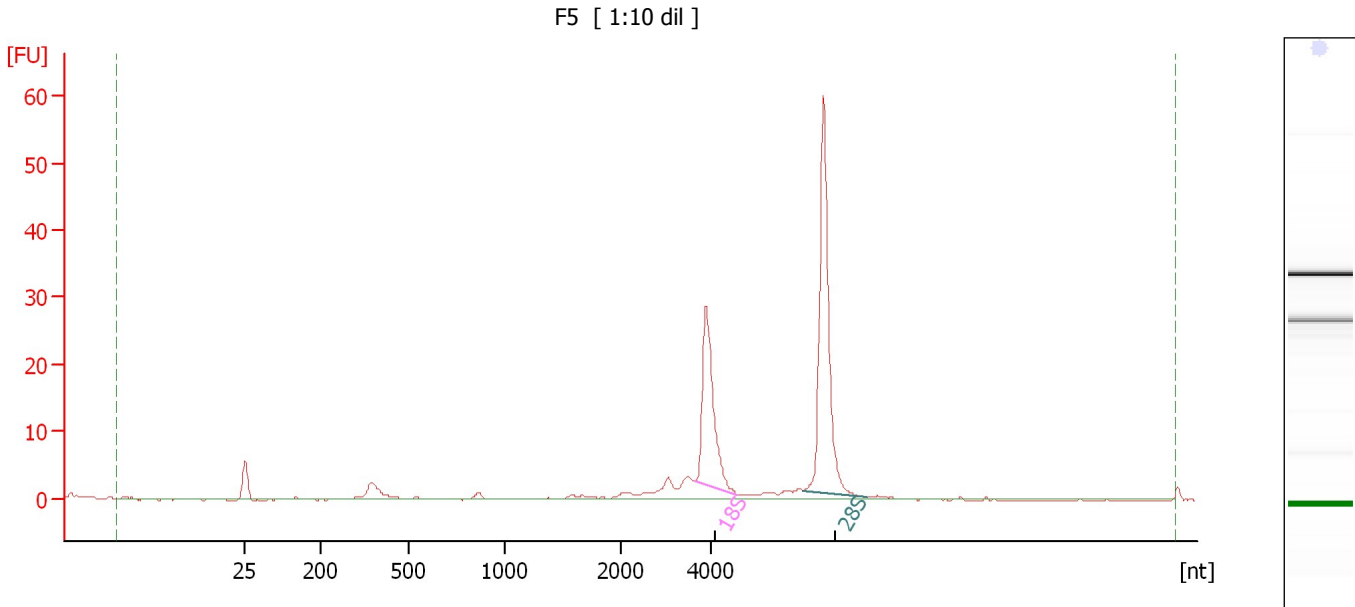
Fragment table for sample 4 : F4

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,246	4,843	46.2	28.8
28S	6,135	7,332	66.6	41.5

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-21\2014-10-21_001.xad

Created: 10/21/2014 12:45:33 PM
Modified: 10/21/2014 1:09:23 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : F5

RNA Area:	123.3	RNA Integrity Number (RIN):	8.9 (B.02.08)
RNA Concentration:	80 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.6	Result Flagging Label:	RIN: 8.90

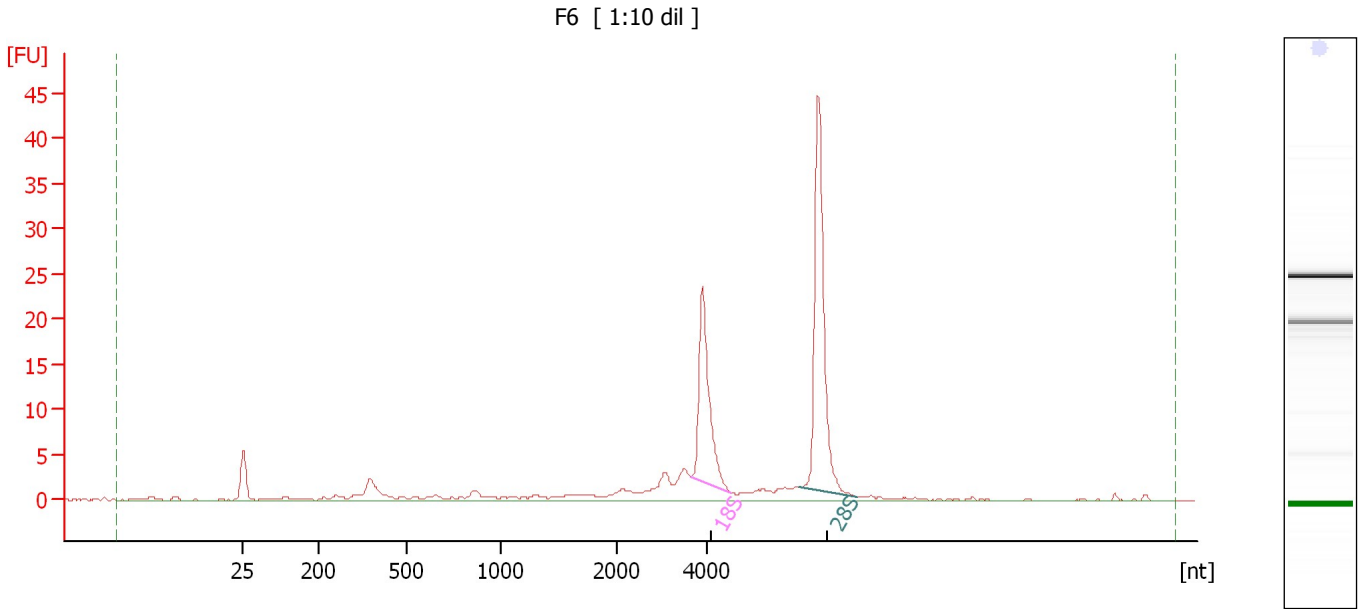
Fragment table for sample 5 : F5

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,618	4,582	33.1	26.9
28S	6,018	7,406	54.5	44.2

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-21\2014-10-21_001.xad

Created: 10/21/2014 12:45:33 PM
Modified: 10/21/2014 1:09:23 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : F6

RNA Area:	123.0	RNA Integrity Number (RIN):	8.6 (B.02.08)
RNA Concentration:	80 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.6	Result Flagging Label:	RIN: 8.60

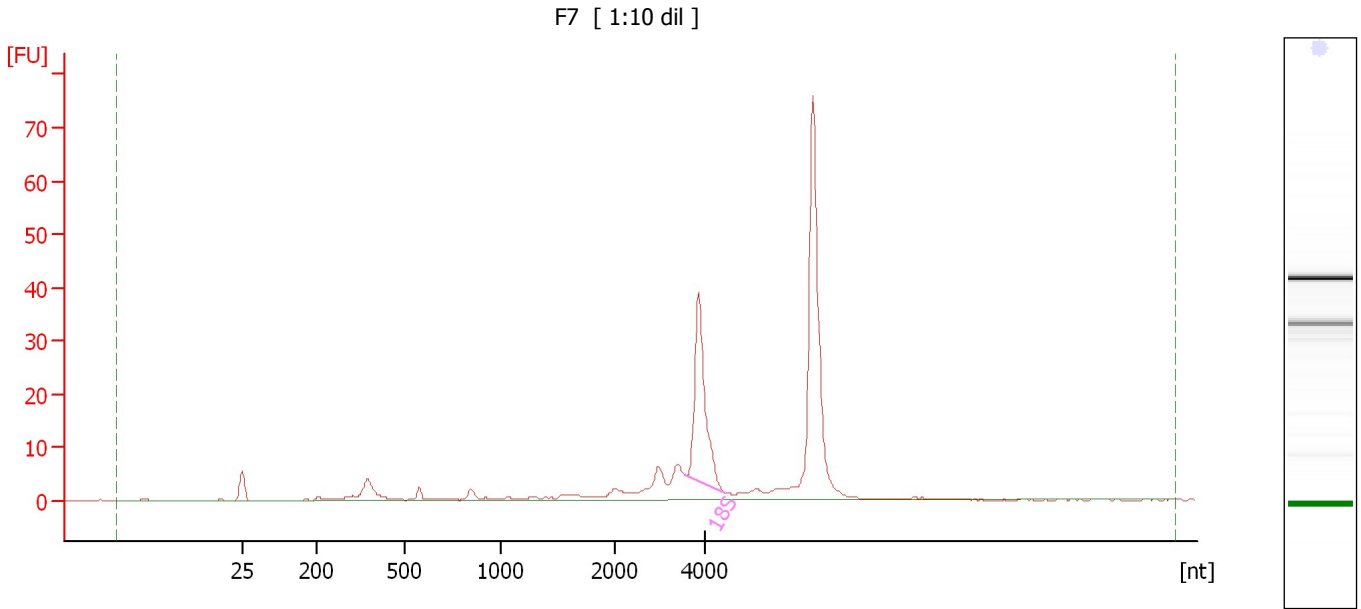
Fragment table for sample 6 : F6

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,633	4,531	25.1	20.4
28S	6,042	7,294	39.8	32.3

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-21\2014-10-21_001.xad

Created: 10/21/2014 12:45:33 PM
Modified: 10/21/2014 1:09:23 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : F7

RNA Area:	196.7	RNA Integrity Number (RIN):	6.4 (B.02.08)
RNA Concentration:	127 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 6.40

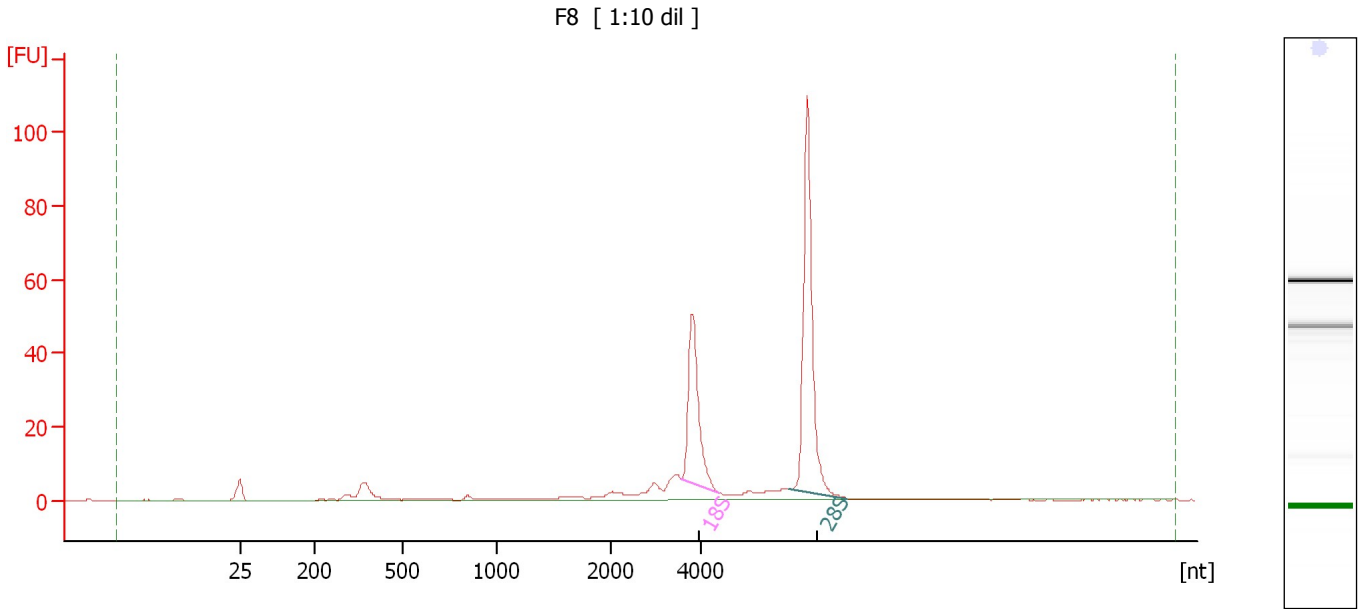
Fragment table for sample 7 : F7

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,558	4,434	42.4	21.6

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-21\2014-10-21_001.xad

Created: 10/21/2014 12:45:33 PM
Modified: 10/21/2014 1:09:23 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : F8

RNA Area:	240.9	RNA Integrity Number (RIN):	8.8 (B.02.08)
RNA Concentration:	156 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.8	Result Flagging Label:	RIN: 8.80

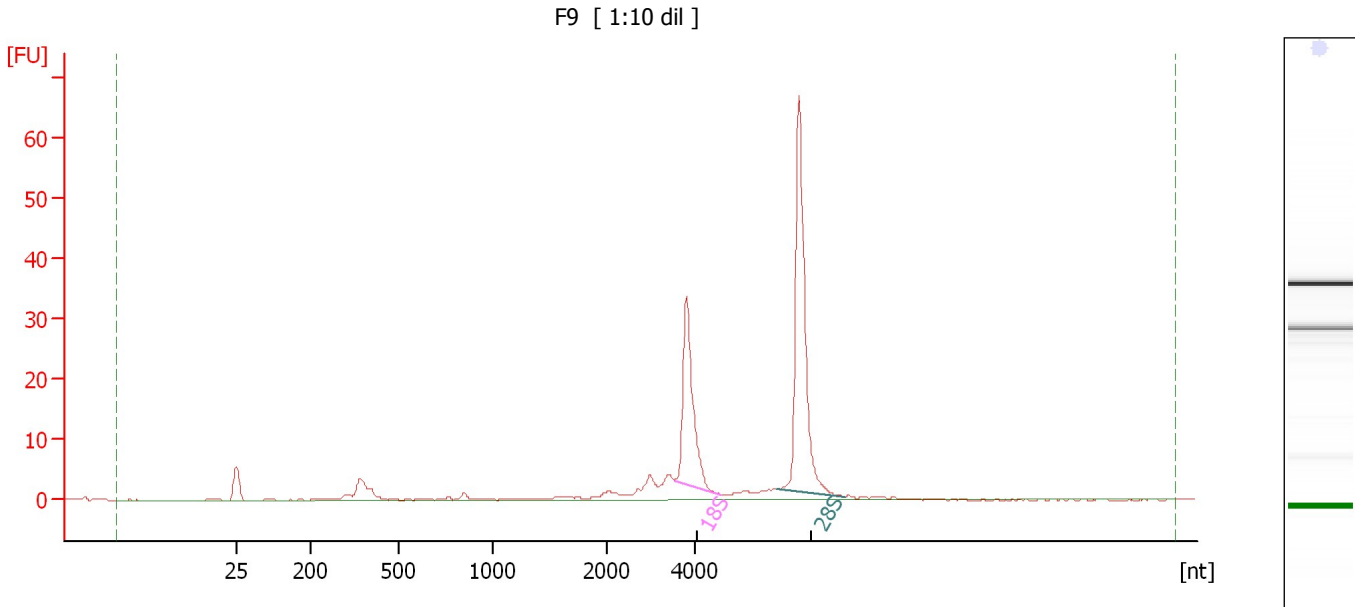
Fragment table for sample 8 : F8

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,549	4,405	52.9	22.0
28S	5,925	7,256	96.1	39.9

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-21\2014-10-21_001.xad

Created: 10/21/2014 12:45:33 PM
Modified: 10/21/2014 1:09:23 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : F9

RNA Area:	161.4	RNA Integrity Number (RIN):	9 (B.02.08)
RNA Concentration:	104 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.8	Result Flagging Label:	RIN:9

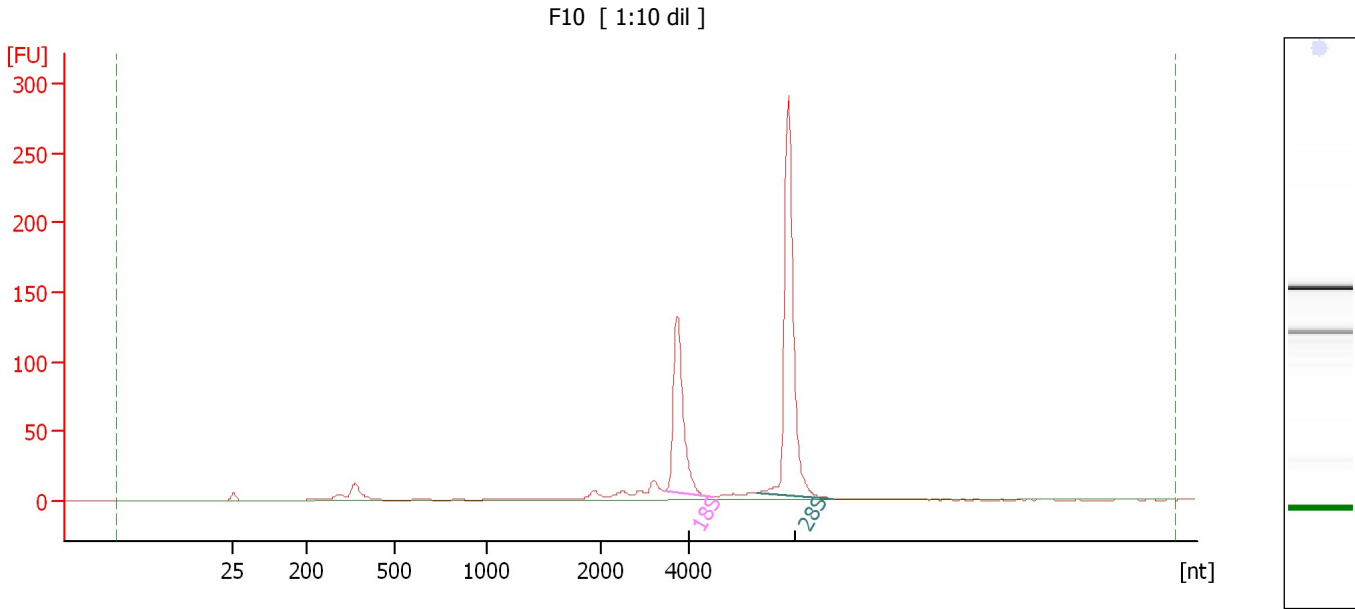
Fragment table for sample 9 : F9

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,536	4,588	36.3	22.5
28S	5,831	7,337	63.6	39.4

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-21\2014-10-21_001.xad

Created: 10/21/2014 12:45:33 PM
Modified: 10/21/2014 1:09:23 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : F10

RNA Area:	590.1	RNA Integrity Number (RIN):	9 (B.02.08)
RNA Concentration:	382 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.8	Result Flagging Label:	RIN:9

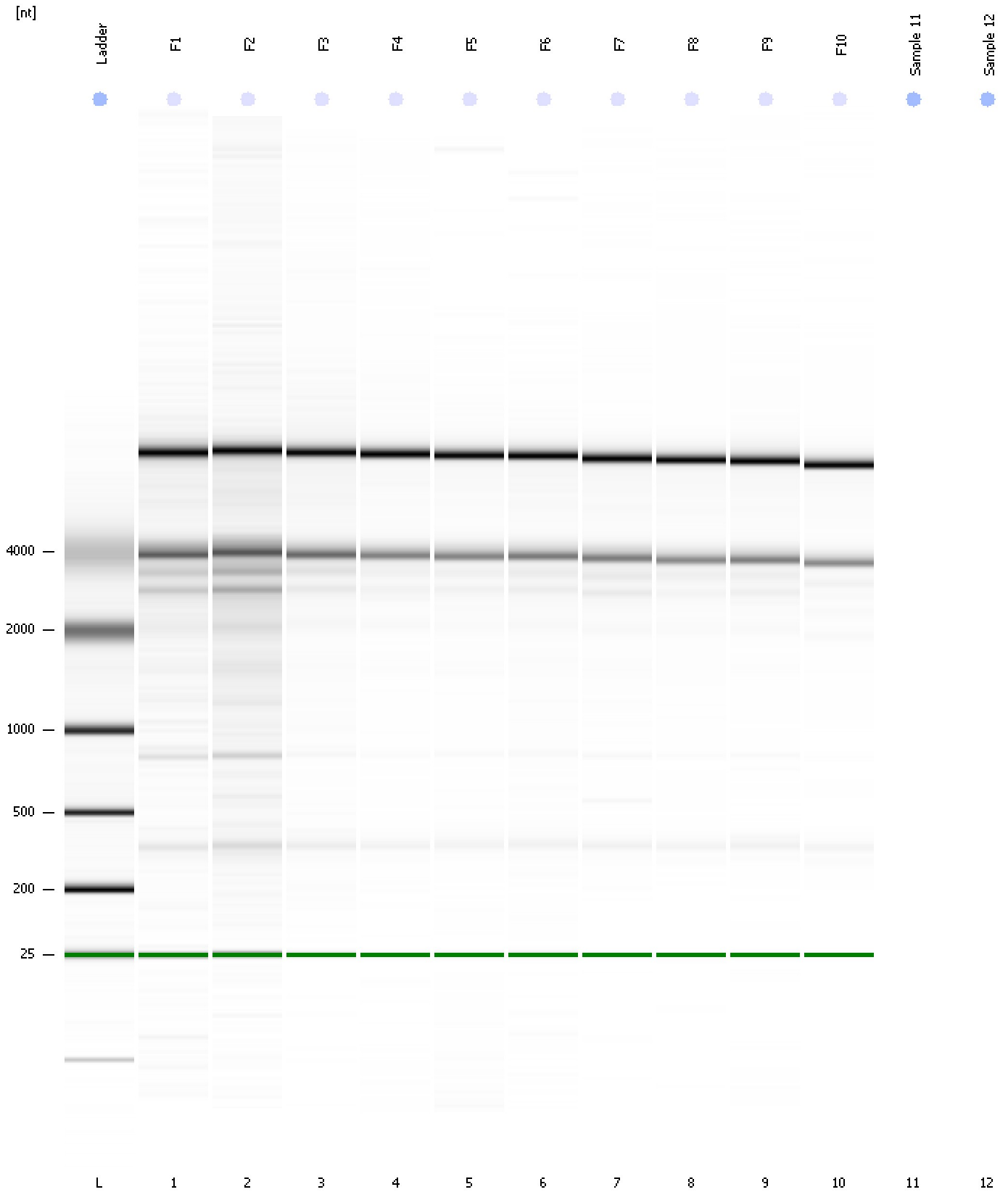
Fragment table for sample 10 : F10

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,427	4,509	142.4	24.1
28S	5,495	7,250	262.0	44.4

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-21\2014-10-21_001.xad

Created: 10/21/2014 12:45:33 PM
Modified: 10/21/2014 1:09:23 PM

Gel Image

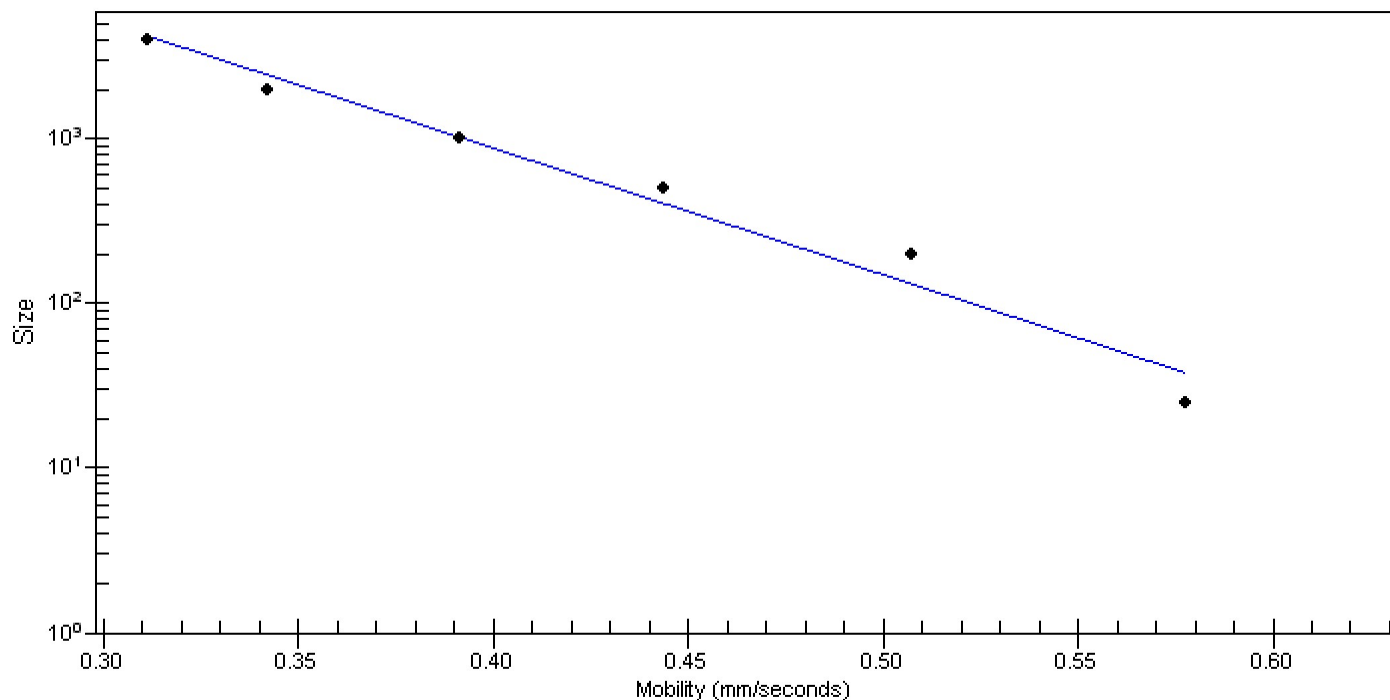


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-21\2014-10-21_001.xad

Created: 10/21/2014 12:45:33 PM
Modified: 10/21/2014 1:09:23 PM

Curves

Standard Curve



Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-21\2014-10-21_001.xad

Created: 10/21/2014 12:45:33 PM
Modified: 10/21/2014 1:09:23 PM

Invalid Samples

Sample 11 has not been run, no results available.

Sample 12 has not been run, no results available.

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-21\2014-10-21_001.xad

Created: 10/21/2014 12:45:33 PM
 Modified: 10/21/2014 1:09:23 PM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 11)		Instrument	Run		10/21/2014 1:06:36 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2014-10-21\2014-10-21_001.xad)		Instrument	Run		10/21/2014 12:45:38 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		10/21/2014 12:45:38 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		10/21/2014 12:45:38 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		10/21/2014 12:45:38 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		10/21/2014 12:45:38 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		10/21/2014 12:45:38 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		10/21/2014 12:45:38 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1