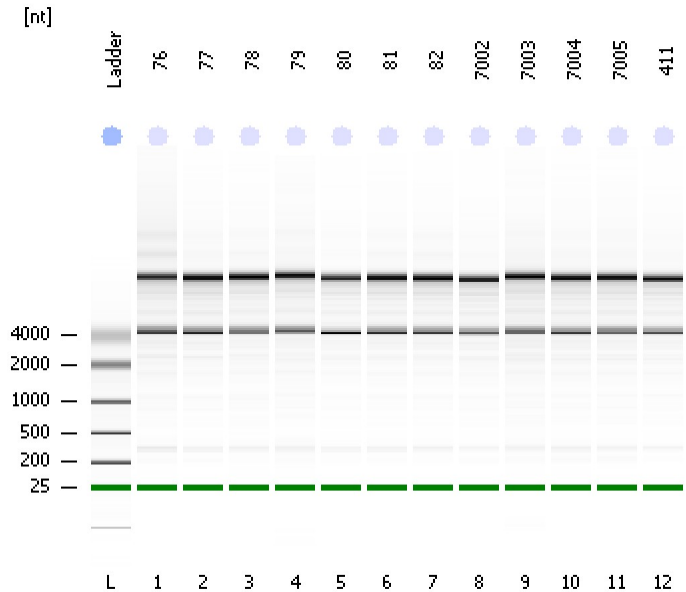


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-26\2014-09-26_007.xad

Created: 9/26/2014 3:49:46 PM
Modified: 9/26/2014 4:13:36 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\2014-09-26\2014-09-26_007.xad

Created: 9/26/2014 3:49:46 PM
Modified: 9/26/2014 4:13:36 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
76		✓	RIN:9	
77		✓	RIN: 9.40	
78		✓	RIN: 9.50	
79		✓	RIN: 9.30	
80		✓	RIN: 9.30	
81		✓	RIN: 9.50	
82		✓	RIN: 9.60	
7002		✓	RIN: 9.50	
7003		✓	RIN:9	
7004		✓	RIN: 9.50	
7005		✓	RIN: 9.50	
411		✓	RIN: 9.50	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-26\2014-09-26_007.xad

Created: 9/26/2014 3:49:46 PM
Modified: 9/26/2014 4:13:36 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

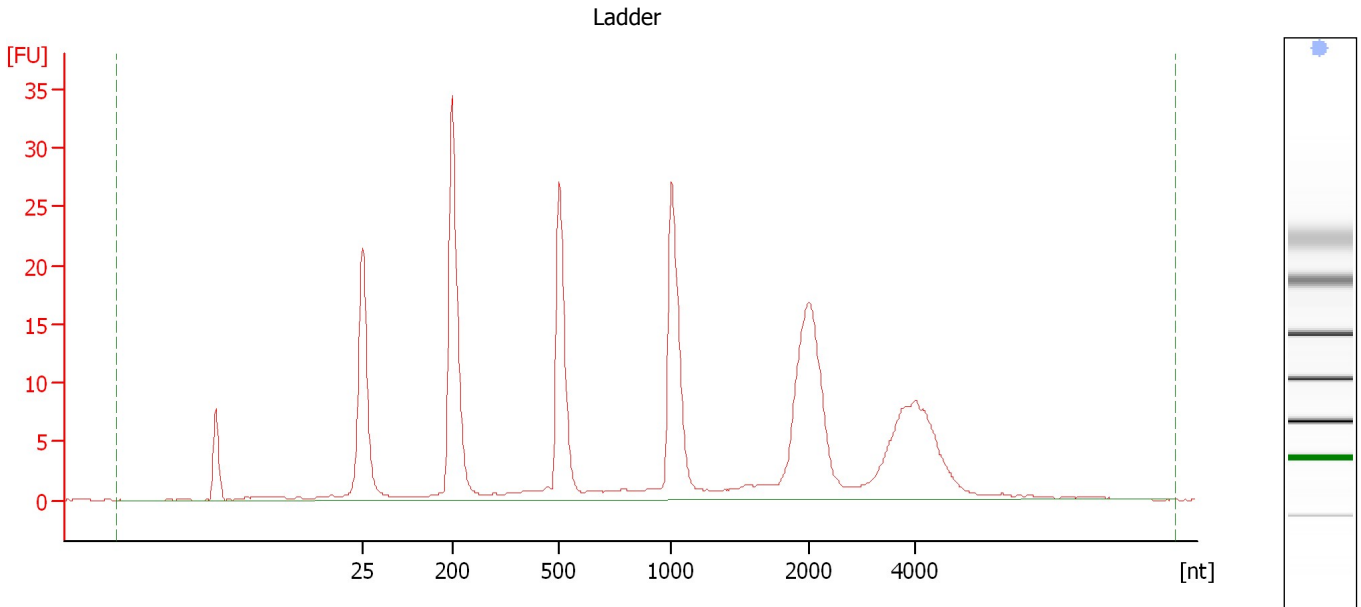
Ladder

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\2014-09-26\2014-09-26_007.xad

Created: 9/26/2014 3:49:46 PM
Modified: 9/26/2014 4:13:36 PM

Electropherogram Summary



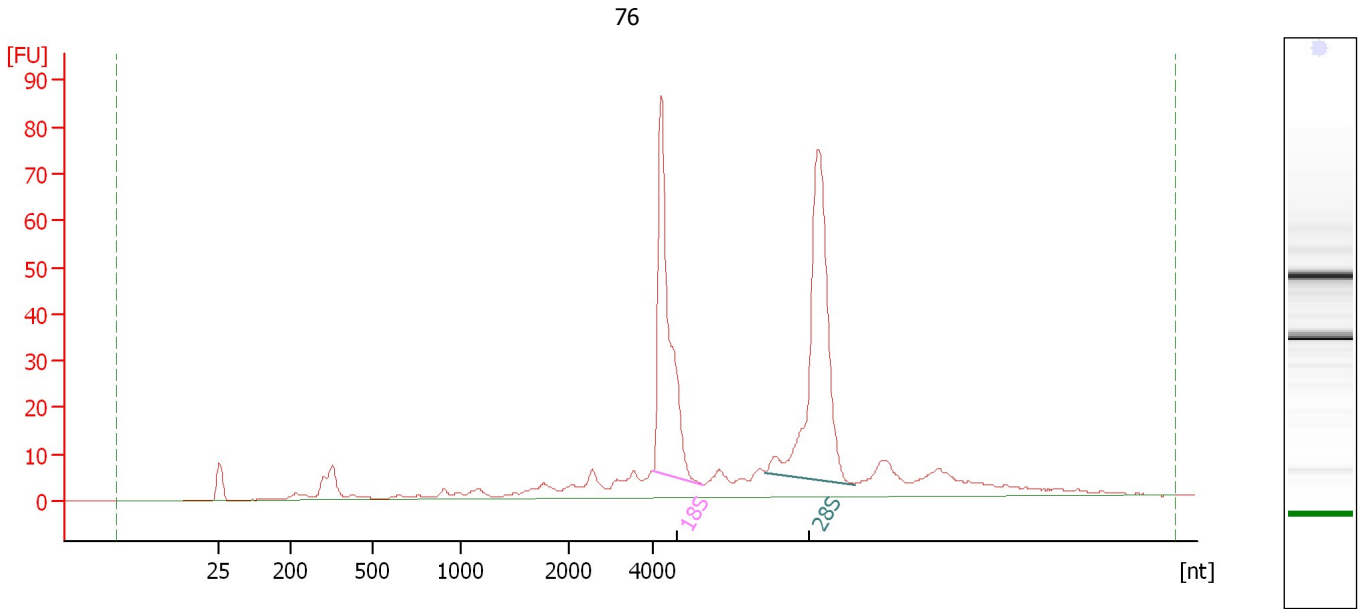
Overall Results for Ladder

RNA Area:	242.4	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\2014-09-26\2014-09-26_007.xad

Created: 9/26/2014 3:49:46 PM
Modified: 9/26/2014 4:13:36 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : 76

RNA Area: 459.9 RNA Integrity Number (RIN): 9 (B.02.08)
RNA Concentration: 285 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.3 Result Flagging Label: RIN:9

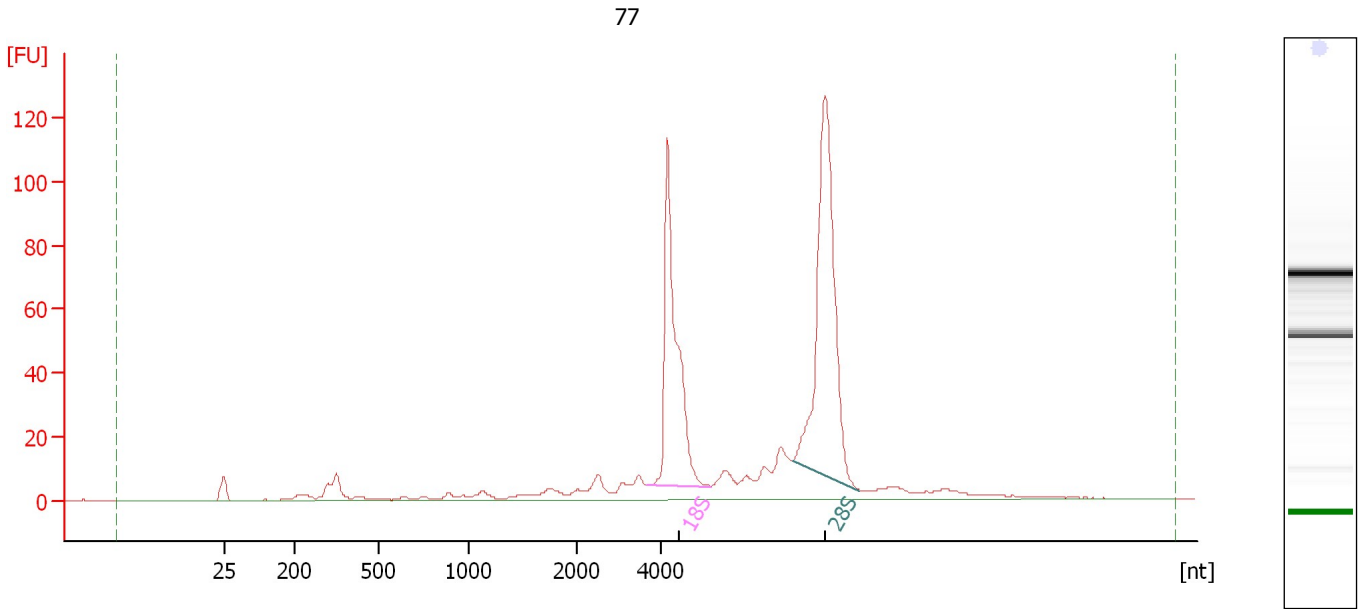
Fragment table for sample 1 : 76

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	4,018	5,192	102.6	22.3
28S	6,697	8,815	131.2	28.5

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-26\2014-09-26_007.xad

Created: 9/26/2014 3:49:46 PM
Modified: 9/26/2014 4:13:36 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : 77

RNA Area:	618.3	RNA Integrity Number (RIN):	9.4 (B.02.08)
RNA Concentration:	383 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.4	Result Flagging Label:	RIN: 9.40

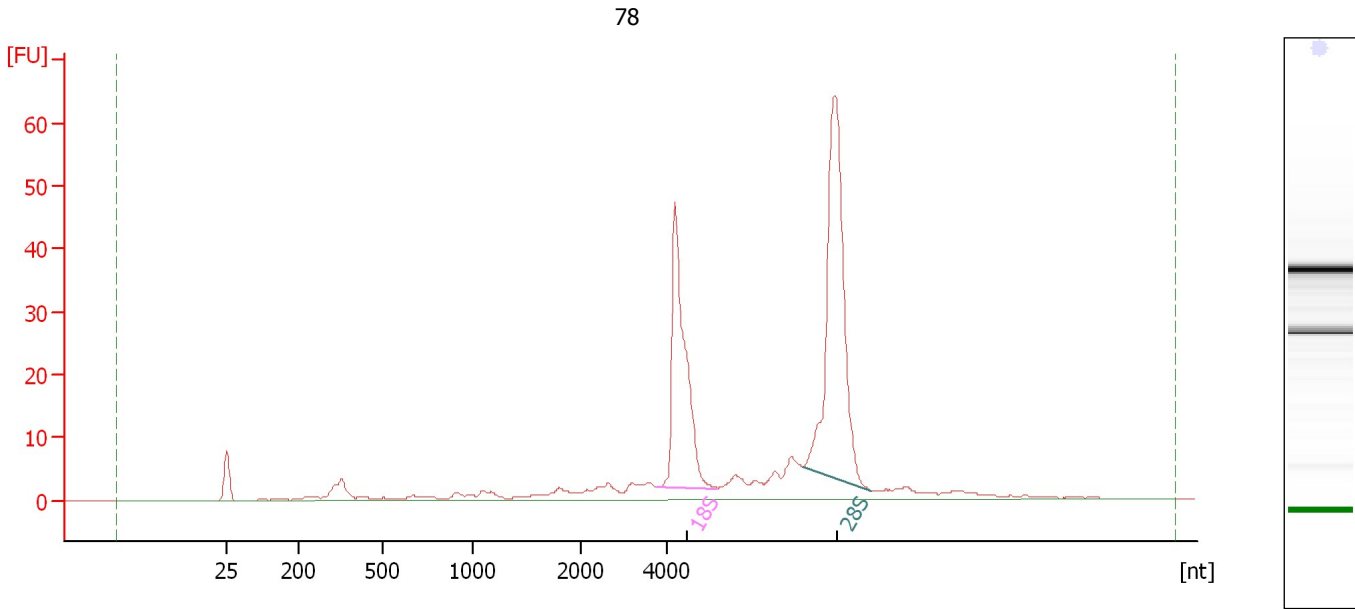
Fragment table for sample 2 : 77

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,681	5,174	150.8	24.4
28S	7,122	8,717	209.9	33.9

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-26\2014-09-26_007.xad

Created: 9/26/2014 3:49:46 PM
Modified: 9/26/2014 4:13:36 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : 78

RNA Area:	297.7	RNA Integrity Number (RIN):	9.5 (B.02.08)
RNA Concentration:	184 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.5	Result Flagging Label:	RIN: 9.50

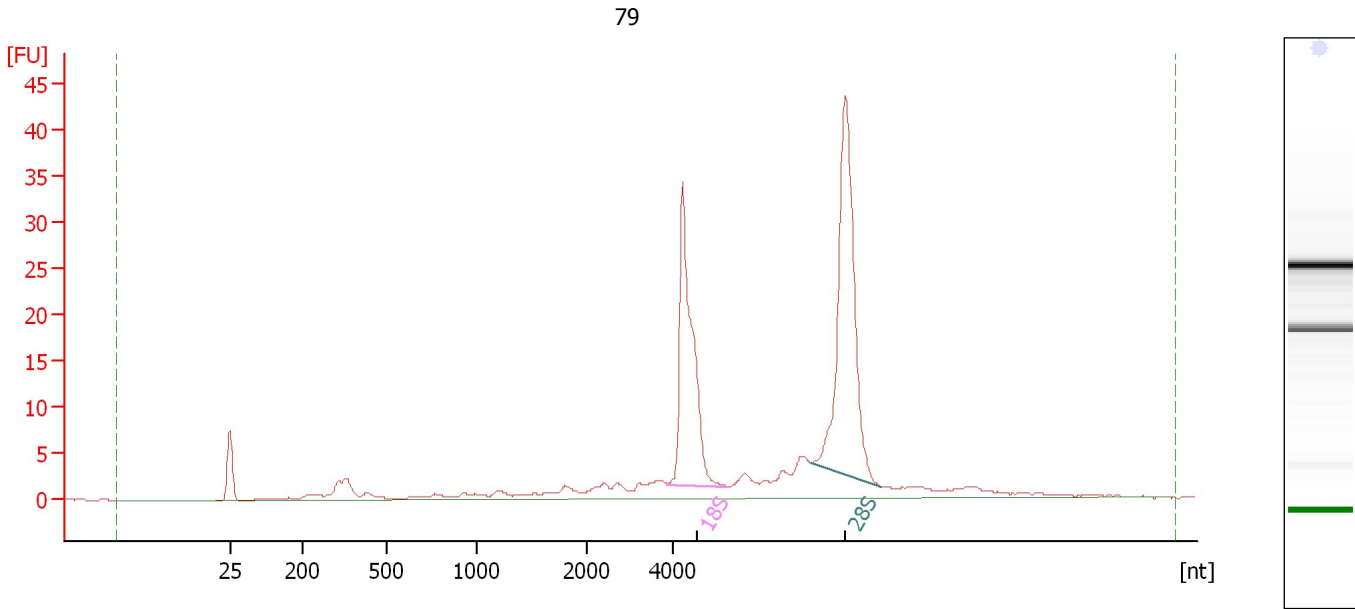
Fragment table for sample 3 : 78

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,796	5,204	67.1	22.5
28S	7,216	8,826	103.5	34.8

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-26\2014-09-26_007.xad

Created: 9/26/2014 3:49:46 PM
Modified: 9/26/2014 4:13:36 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : 79

RNA Area: 205.4 RNA Integrity Number (RIN): 9.3 (B.02.08)
RNA Concentration: 127 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.4 Result Flagging Label: RIN: 9.30

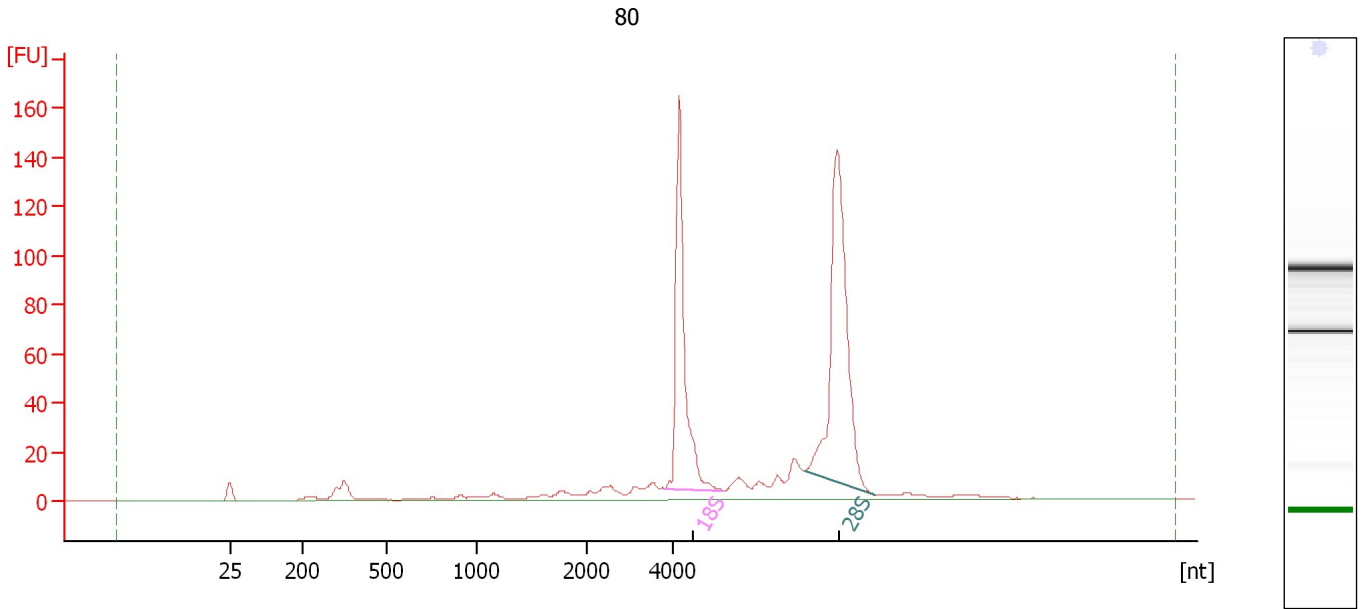
Fragment table for sample 4 : 79

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,884	5,284	47.9	23.3
28S	7,259	8,884	65.7	32.0

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-26\2014-09-26_007.xad

Created: 9/26/2014 3:49:46 PM
Modified: 9/26/2014 4:13:36 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : 80

RNA Area:	617.8	RNA Integrity Number (RIN):	9.3 (B.02.08)
RNA Concentration:	382 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.4	Result Flagging Label:	RIN: 9.30

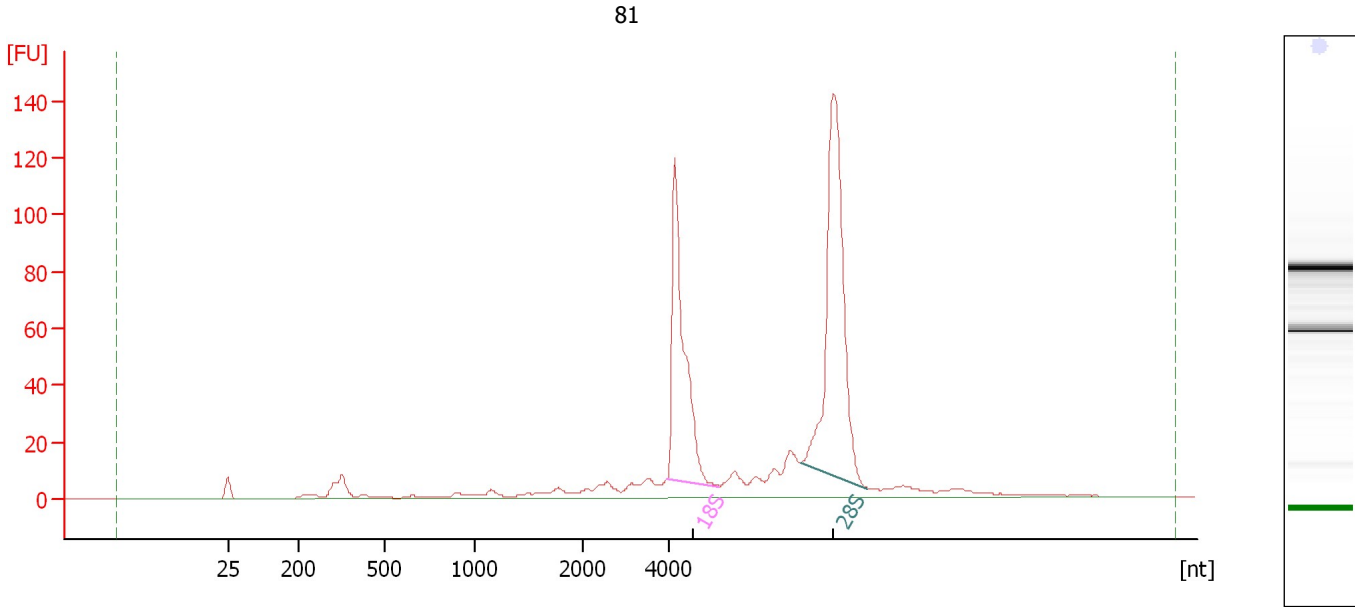
Fragment table for sample 5 : 80

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,809	5,209	153.0	24.8
28S	7,109	8,759	218.6	35.4

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-26\2014-09-26_007.xad

Created: 9/26/2014 3:49:46 PM
Modified: 9/26/2014 4:13:36 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : 81

RNA Area:	651.3	RNA Integrity Number (RIN):	9.5 (B.02.08)
RNA Concentration:	403 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.5	Result Flagging Label:	RIN: 9.50

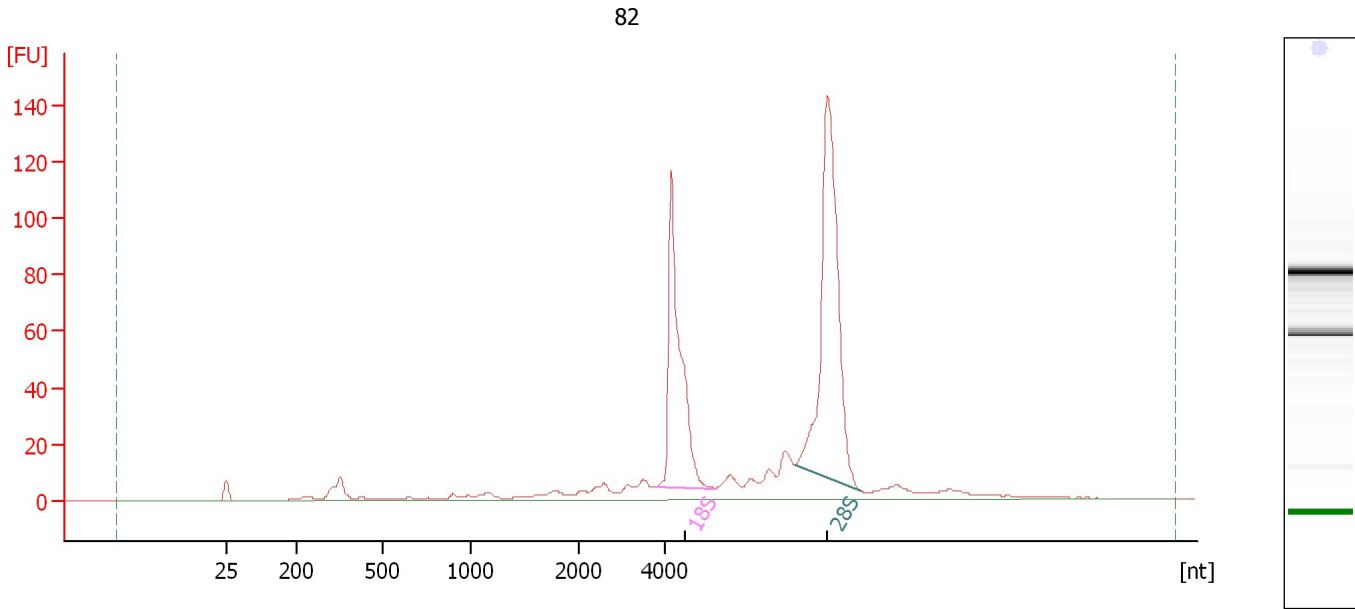
Fragment table for sample 6 : 81

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,976	5,206	149.6	23.0
28S	7,114	8,670	228.0	35.0

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-26\2014-09-26_007.xad

Created: 9/26/2014 3:49:46 PM
Modified: 9/26/2014 4:13:36 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : 82

RNA Area:	651.8	RNA Integrity Number (RIN):	9.6 (B.02.08)
RNA Concentration:	403 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.6	Result Flagging Label:	RIN: 9.60

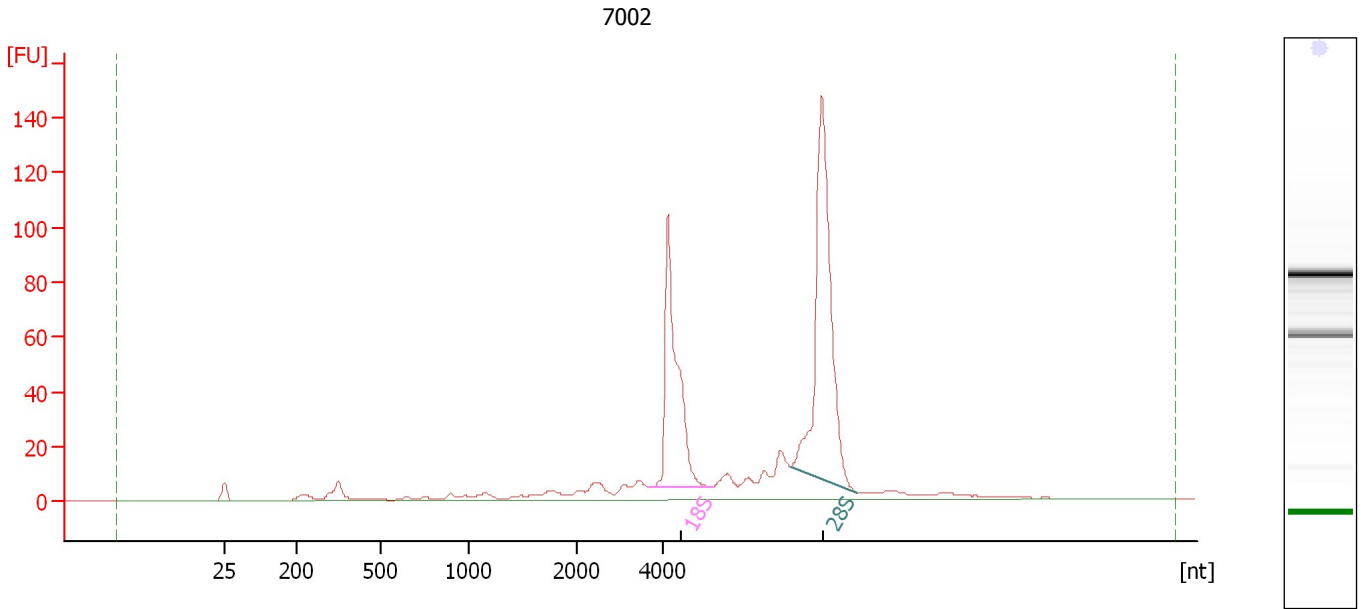
Fragment table for sample 7 : 82

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,816	5,203	150.3	23.1
28S	7,093	8,655	233.0	35.7

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-26\2014-09-26_007.xad

Created: 9/26/2014 3:49:46 PM
Modified: 9/26/2014 4:13:36 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : 7002

RNA Area:	619.4	RNA Integrity Number (RIN):	9.5 (B.02.08)
RNA Concentration:	383 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.5	Result Flagging Label:	RIN: 9.50

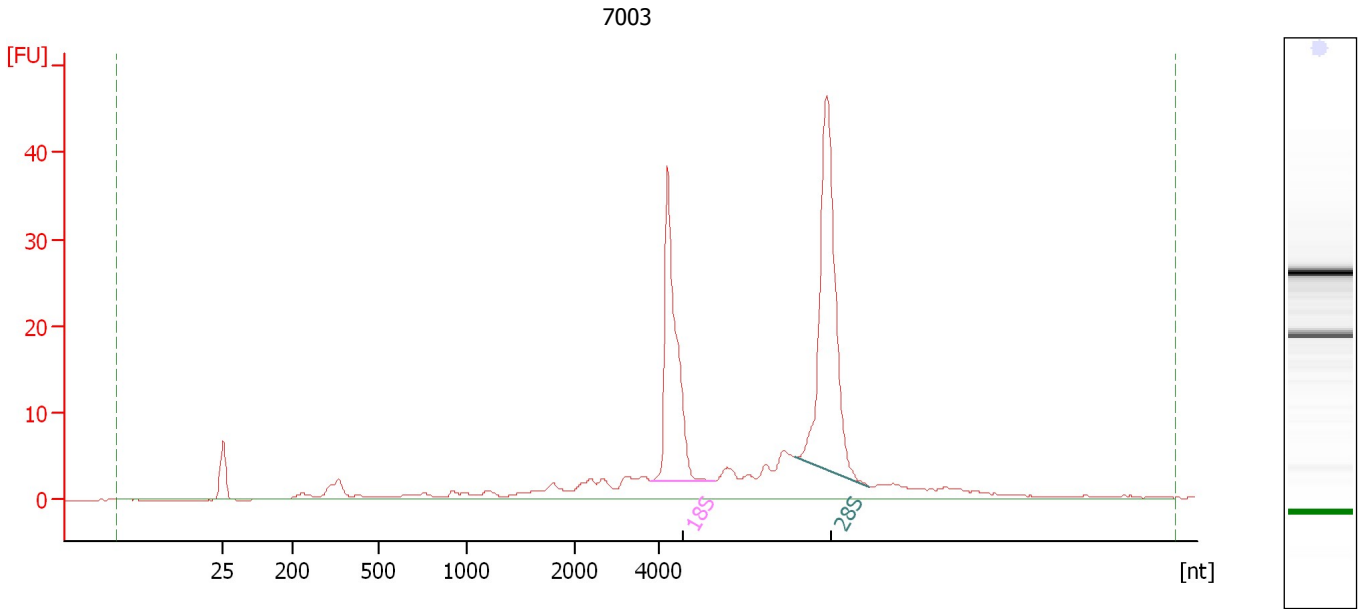
Fragment table for sample 8 : 7002

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,660	5,176	141.1	22.8
28S	7,019	8,585	212.4	34.3

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-26\2014-09-26_007.xad

Created: 9/26/2014 3:49:46 PM
 Modified: 9/26/2014 4:13:36 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : 7003

RNA Area:	224.7	RNA Integrity Number (RIN):	9 (B.02.08)
RNA Concentration:	139 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.4	Result Flagging Label:	RIN:9

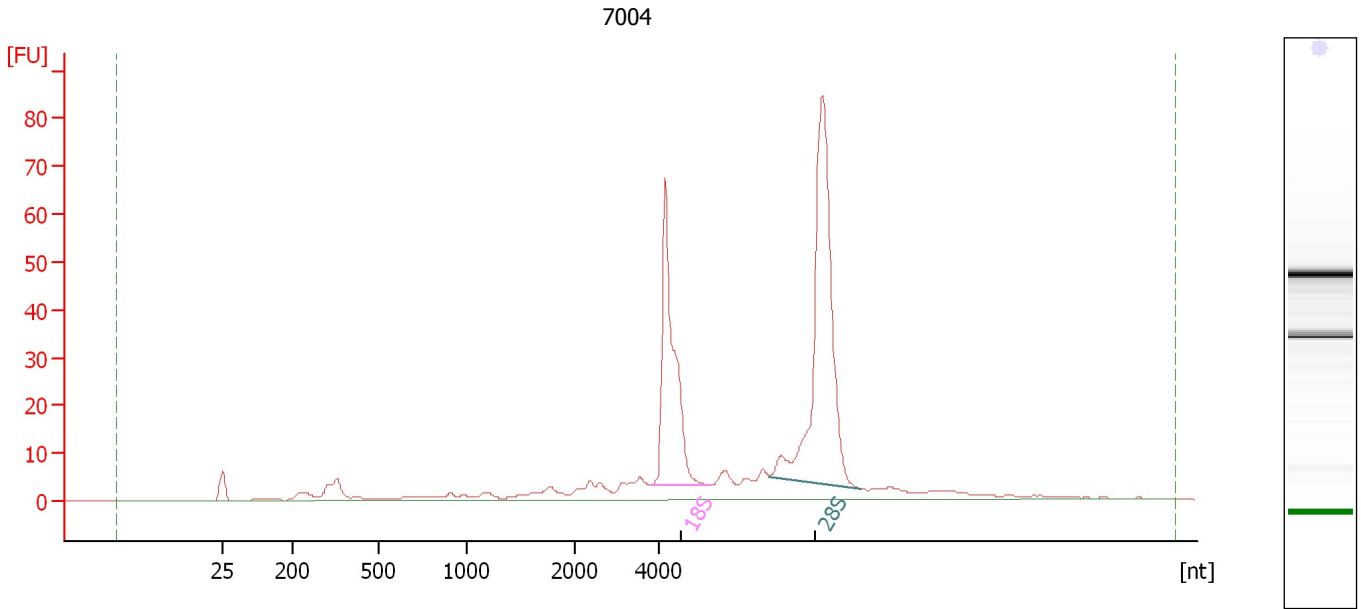
Fragment table for sample 9 : 7003

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,828	5,349	48.8	21.7
28S	7,251	8,976	68.2	30.4

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-26\2014-09-26_007.xad

Created: 9/26/2014 3:49:46 PM
Modified: 9/26/2014 4:13:36 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : 7004

RNA Area:	393.2	RNA Integrity Number (RIN):	9.5 (B.02.08)
RNA Concentration:	243 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.7	Result Flagging Label:	RIN: 9.50

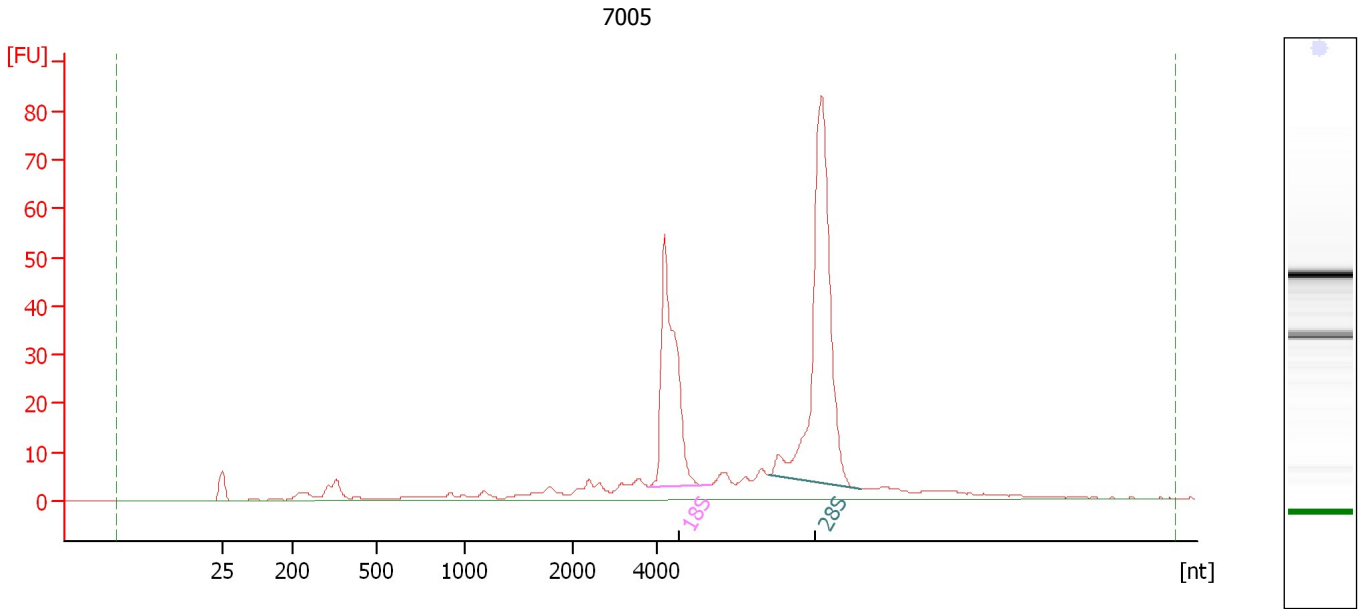
Fragment table for sample 10 : 7004

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,828	5,223	87.3	22.2
28S	6,643	8,798	145.3	37.0

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-26\2014-09-26_007.xad

Created: 9/26/2014 3:49:46 PM
Modified: 9/26/2014 4:13:36 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : 7005

RNA Area:	384.9	RNA Integrity Number (RIN):	9.5 (B.02.08)
RNA Concentration:	238 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.7	Result Flagging Label:	RIN: 9.50

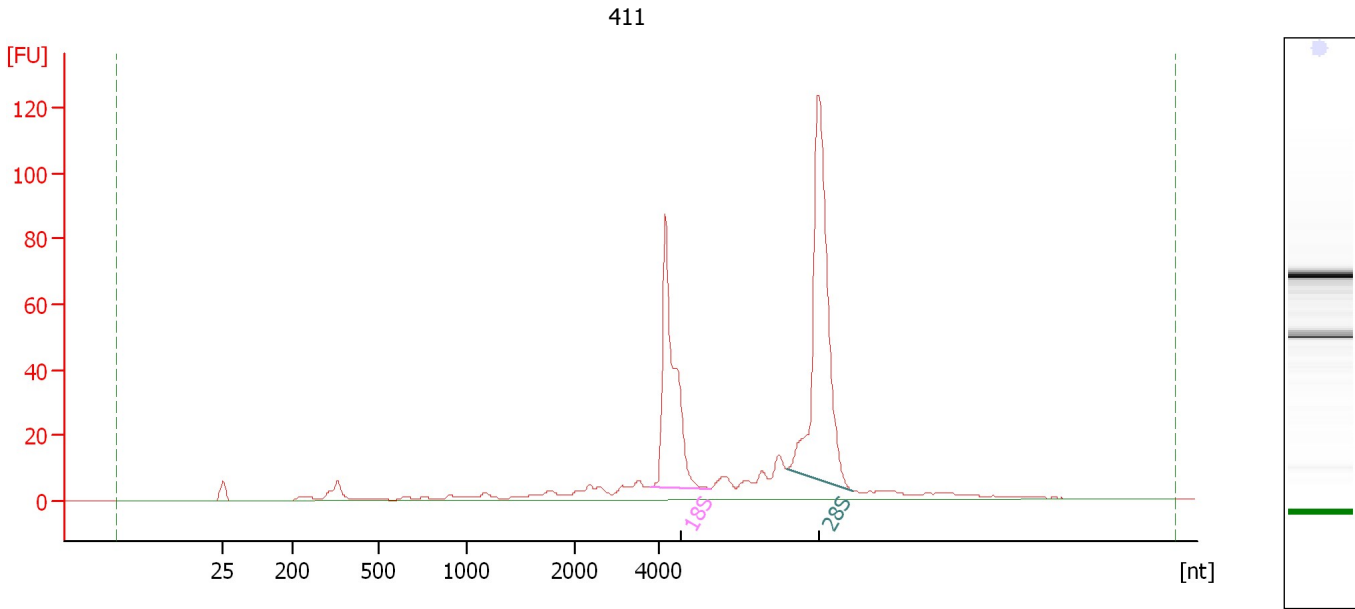
Fragment table for sample 11 : 7005

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,823	5,272	84.1	21.8
28S	6,669	8,855	142.1	36.9

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-26\2014-09-26_007.xad

Created: 9/26/2014 3:49:46 PM
Modified: 9/26/2014 4:13:36 PM

Electropherogram Summary Continued ...



Overall Results for sample 12 : 411

RNA Area:	495.7	RNA Integrity Number (RIN):	9.5 (B.02.08)
RNA Concentration:	307 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.6	Result Flagging Label:	RIN: 9.50

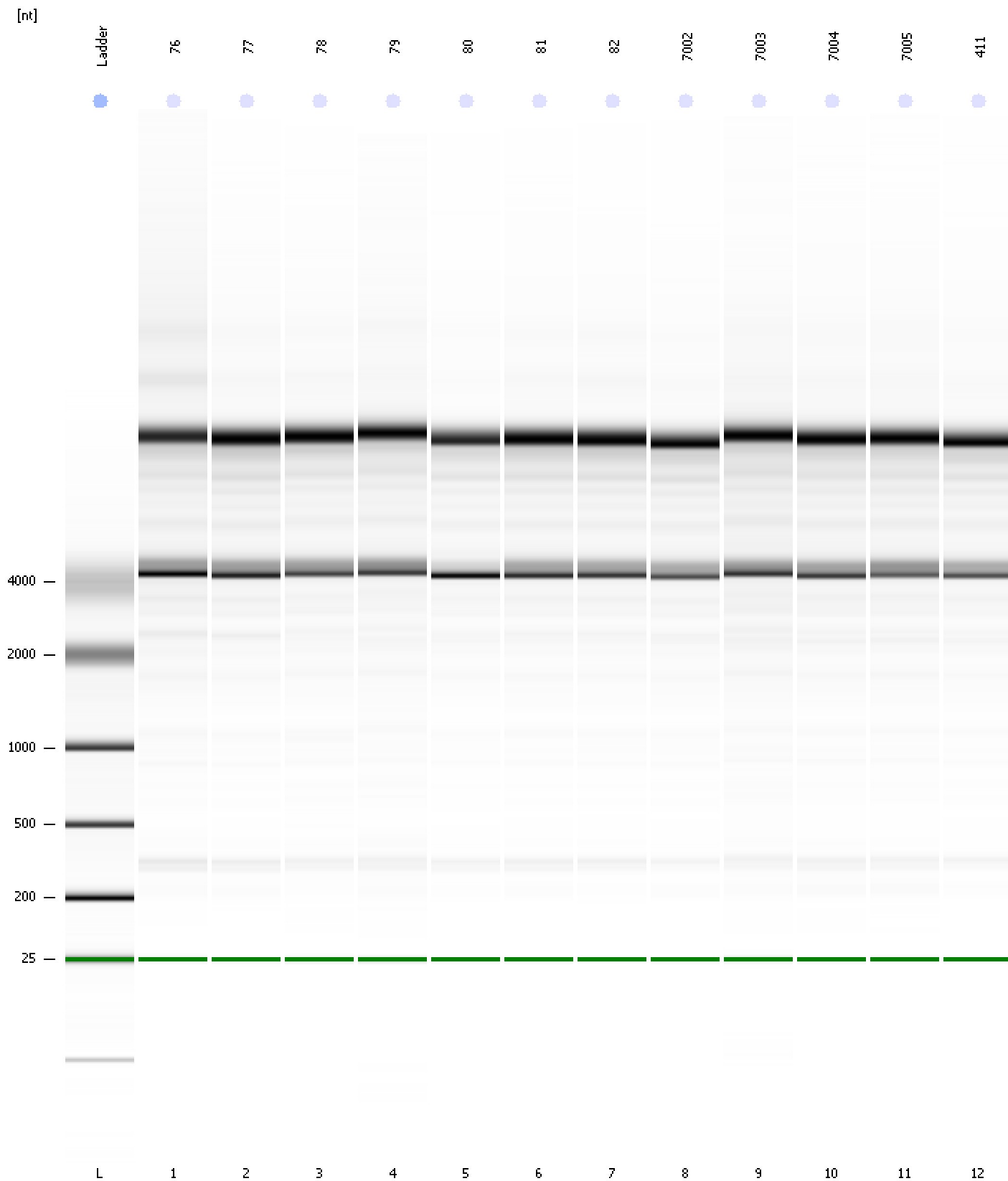
Fragment table for sample 12 : 411

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,803	5,223	113.4	22.9
28S	7,048	8,621	176.3	35.6

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-26\2014-09-26_007.xad

Created: 9/26/2014 3:49:46 PM
Modified: 9/26/2014 4:13:36 PM

Gel Image

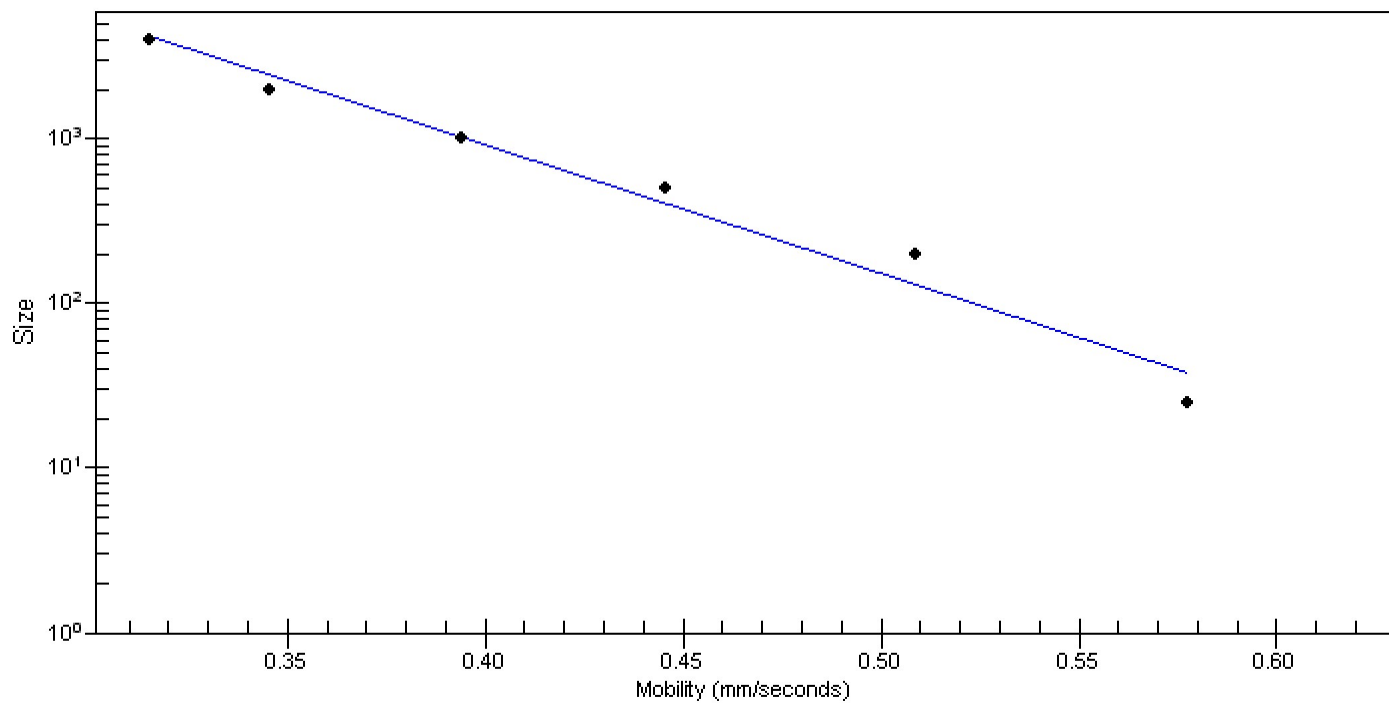


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-26\2014-09-26_007.xad

Created: 9/26/2014 3:49:46 PM
Modified: 9/26/2014 4:13:36 PM

Curves

Standard Curve



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-26\2014-09-26_007.xad

Created: 9/26/2014 3:49:46 PM
 Modified: 9/26/2014 4:13:36 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		9/26/2014 4:13:34 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2014-09-26\2014-09-26_007.xad)		Instrument	Run		9/26/2014 3:49:51 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		9/26/2014 3:49:51 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		9/26/2014 3:49:51 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		9/26/2014 3:49:51 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		9/26/2014 3:49:51 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		9/26/2014 3:49:51 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		9/26/2014 3:49:51 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1