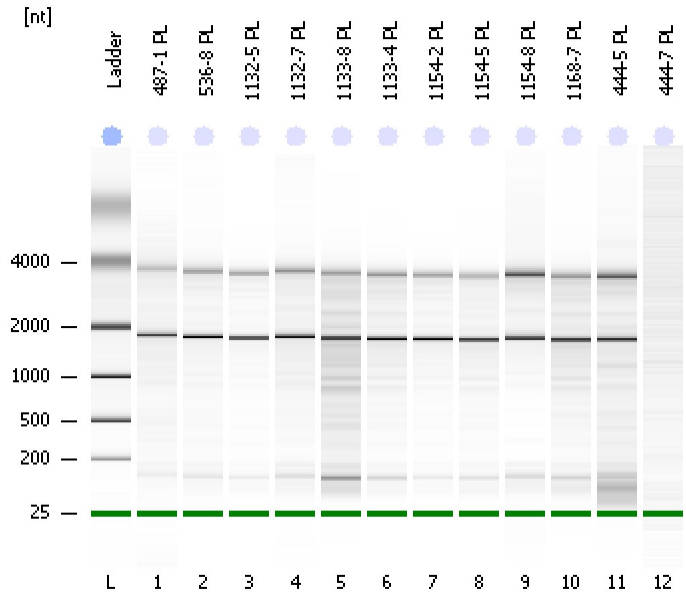


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-07-12\2017-07-12_001.xad

Created: 7/12/2017 10:29:31 AM
Modified: 7/12/2017 11:00:25 AM

Electrophoresis File Run Summary



Instrument Information:

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

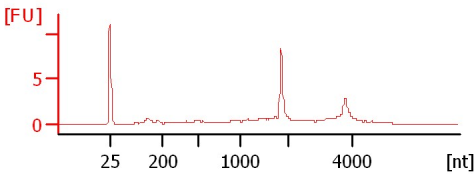
Assay Information:

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)
© Copyright 2003 - 2009 Agilent Technologies, Inc.

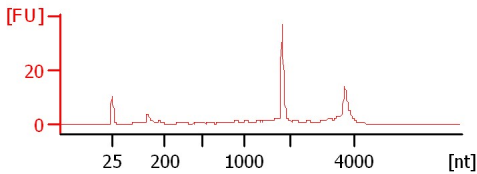
Chip Information:

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

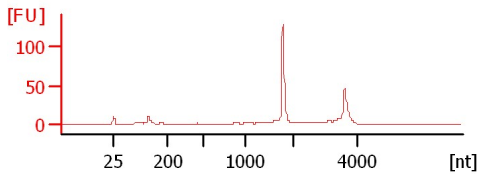
487-1 PL
RIN: 7.20



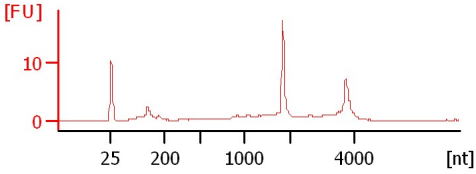
536-8 PL
RIN: 7.60



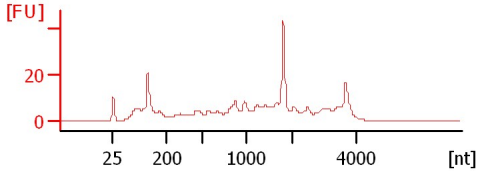
1132-5 PL
RIN: 8.10



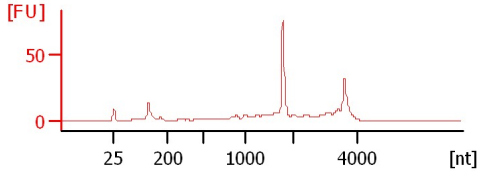
1132-7 PL
RIN: 7.40



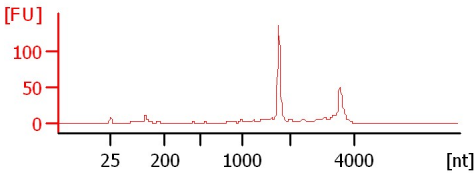
1133-8 PL
RIN: 5.30



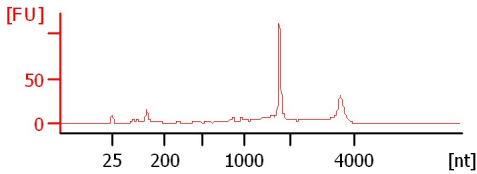
1133-4 PL
RIN: 7



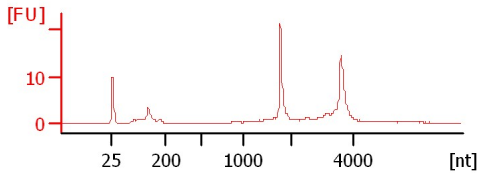
1154-2 PL
RIN: 7.70



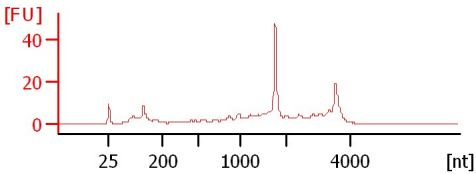
1154-5 PL
RIN: 6.90



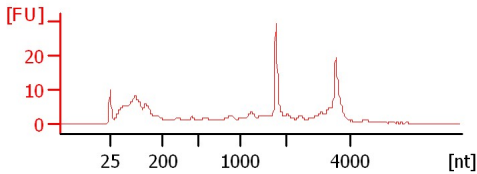
1154-8 PL
RIN: 9.40



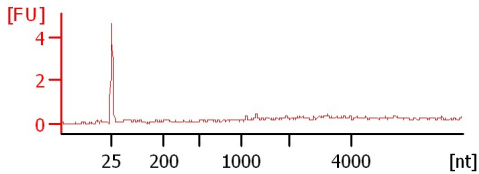
1168-7 PL
RIN: 7.30



444-5 PL
RIN: 6.90



444-7 PL
RIN: 1



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-07-12\2017-07-12_001.xad

Created: 7/12/2017 10:29:31 AM
 Modified: 7/12/2017 11:00:25 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
487-1 PL		✓	RIN: 7.20	
536-8 PL		✓	RIN: 7.60	
1132-5 PL		✓	RIN: 8.10	
1132-7 PL		✓	RIN: 7.40	
1133-8 PL		✓	RIN: 5.30	
1133-4 PL		✓	RIN:7	
1154-2 PL		✓	RIN: 7.70	
1154-5 PL		✓	RIN: 6.90	
1154-8 PL		✓	RIN: 9.40	
1168-7 PL		✓	RIN: 7.30	
444-5 PL		✓	RIN: 6.90	
444-7 PL		✓	RIN:1	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-07-12\2017-07-12_001.xad

Created: 7/12/2017 10:29:31 AM
Modified: 7/12/2017 11:00:25 AM

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

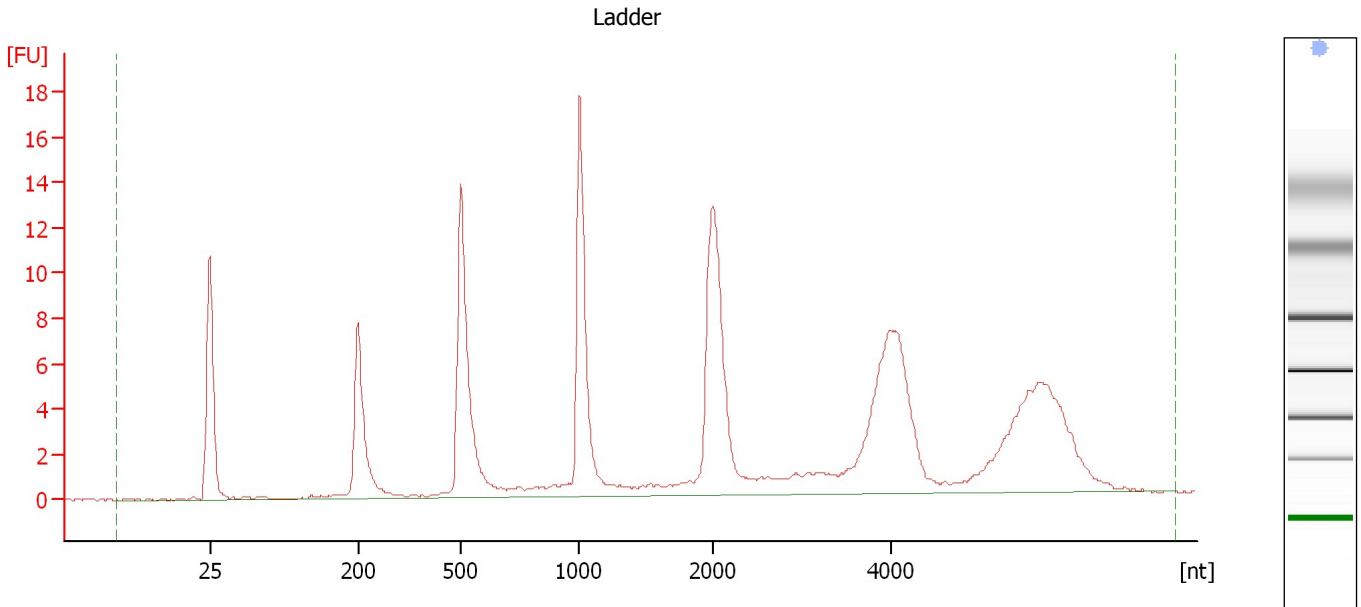
Ladder

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

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-07-12\2017-07-12_001.xad

Created: 7/12/2017 10:29:31 AM
Modified: 7/12/2017 11:00:25 AM

Electropherogram Summary



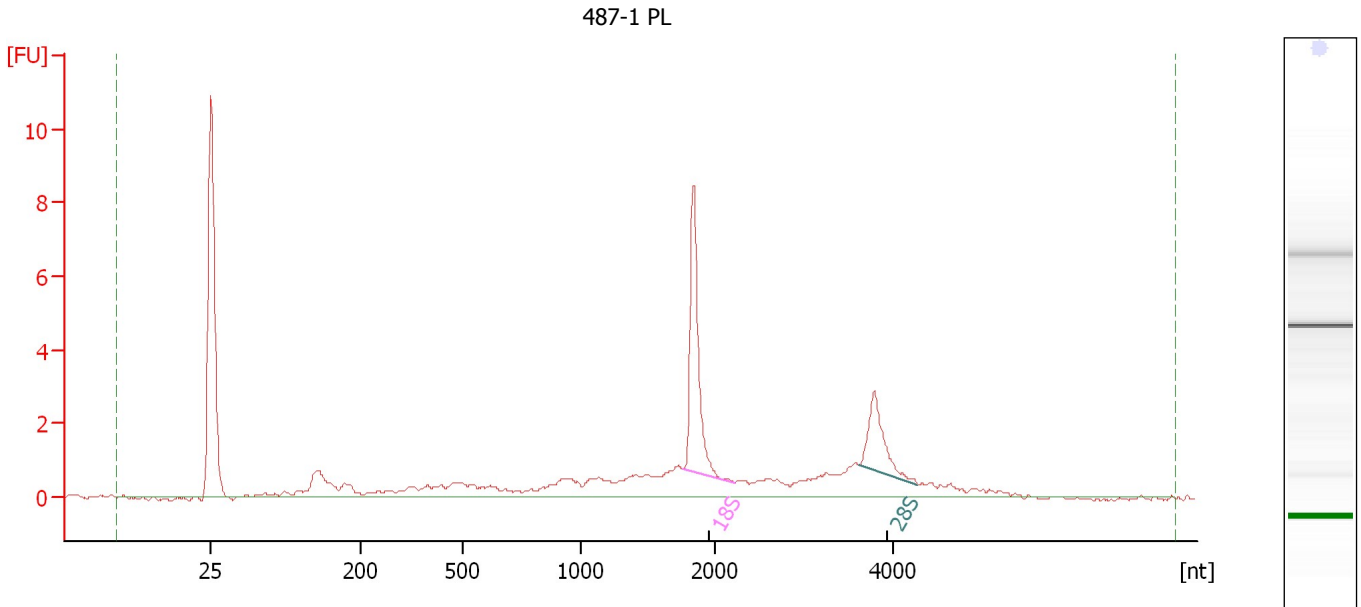
Overall Results for Ladder

RNA Area:	152.2	Result Flagging Color:	
RNA Concentration:	150 ng/μl	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-07-12\2017-07-12_001.xad

Created: 7/12/2017 10:29:31 AM
Modified: 7/12/2017 11:00:25 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : 487-1 PL

RNA Area:	42.4	RNA Integrity Number (RIN):	7.2 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	42 ng/μl		
rRNA Ratio [28s / 18s]:	0.4	Result Flagging Color:	
		Result Flagging Label:	RIN: 7.20

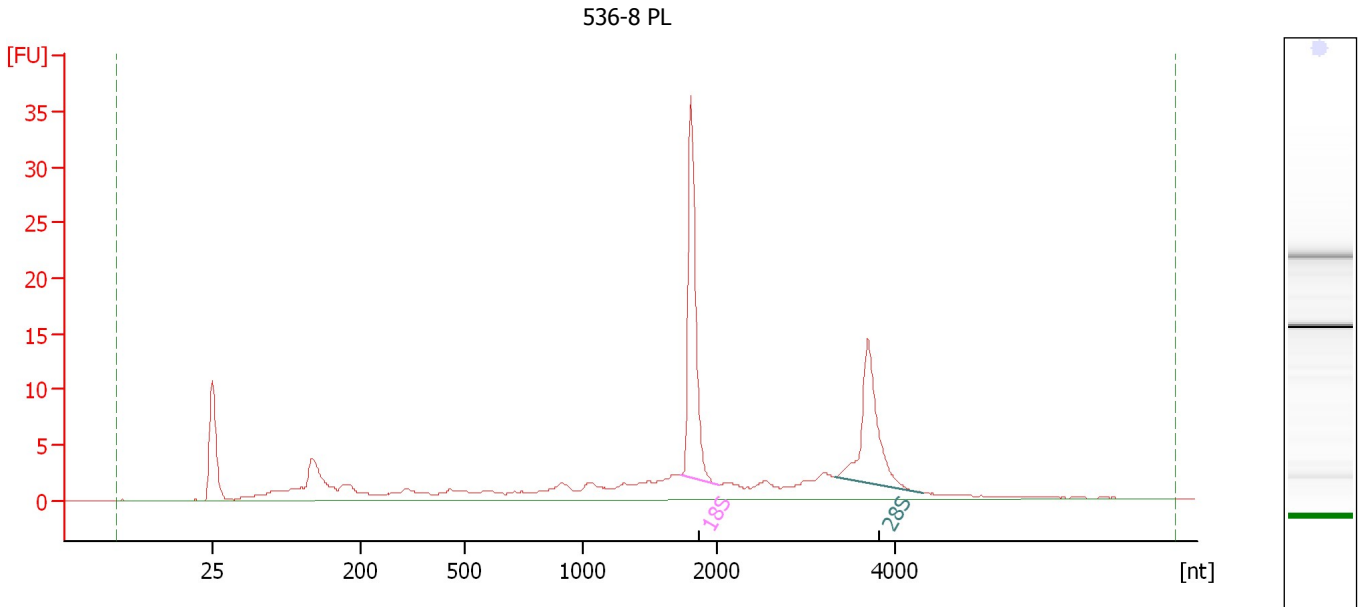
Fragment table for sample 1 : 487-1 PL

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,758	2,227	7.2	16.9
28S	3,625	4,270	3.1	7.4

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-07-12\2017-07-12_001.xad

Created: 7/12/2017 10:29:31 AM
Modified: 7/12/2017 11:00:25 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : 536-8 PL

RNA Area:	142.9	RNA Integrity Number (RIN):	7.6 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	141 ng/μl		
rRNA Ratio [28s / 18s]:	0.7	Result Flagging Color:	
		Result Flagging Label:	RIN: 7.60

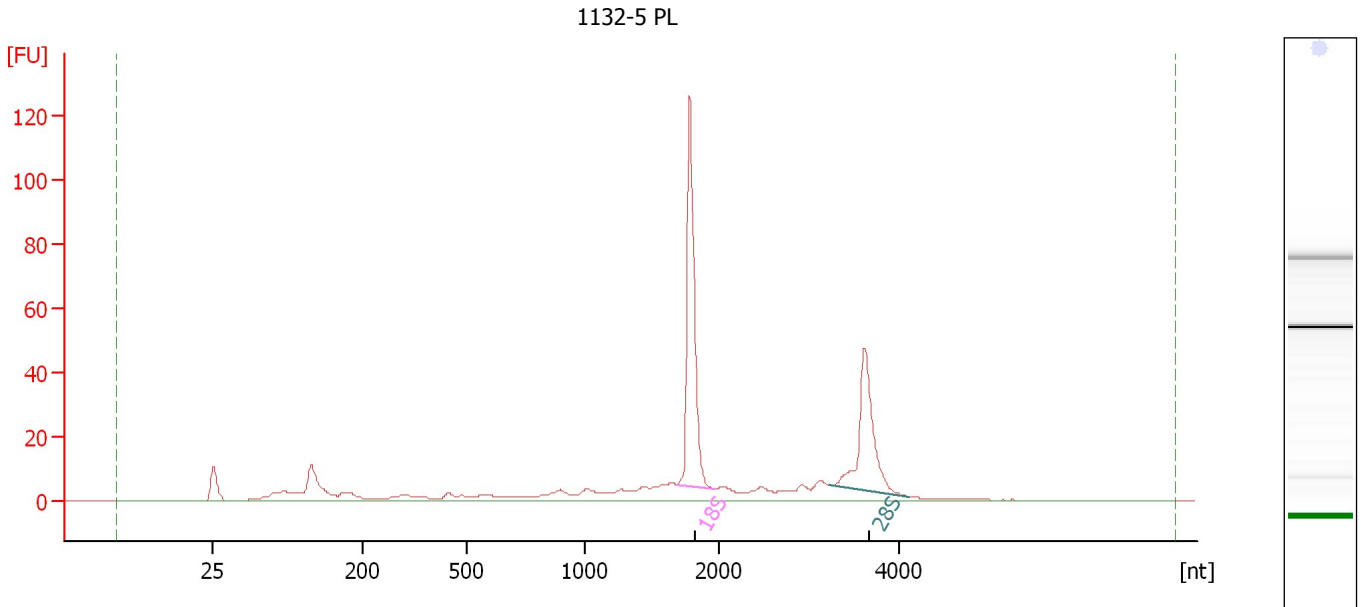
Fragment table for sample 2 : 536-8 PL

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,727	2,024	28.9	20.2
28S	3,324	4,302	20.0	14.0

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-07-12\2017-07-12_001.xad

Created: 7/12/2017 10:29:31 AM
 Modified: 7/12/2017 11:00:25 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : 1132-5 PL

RNA Area:	375.9	RNA Integrity Number (RIN):	8.1 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	370 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.6	Result Flagging Label:	RIN: 8.10

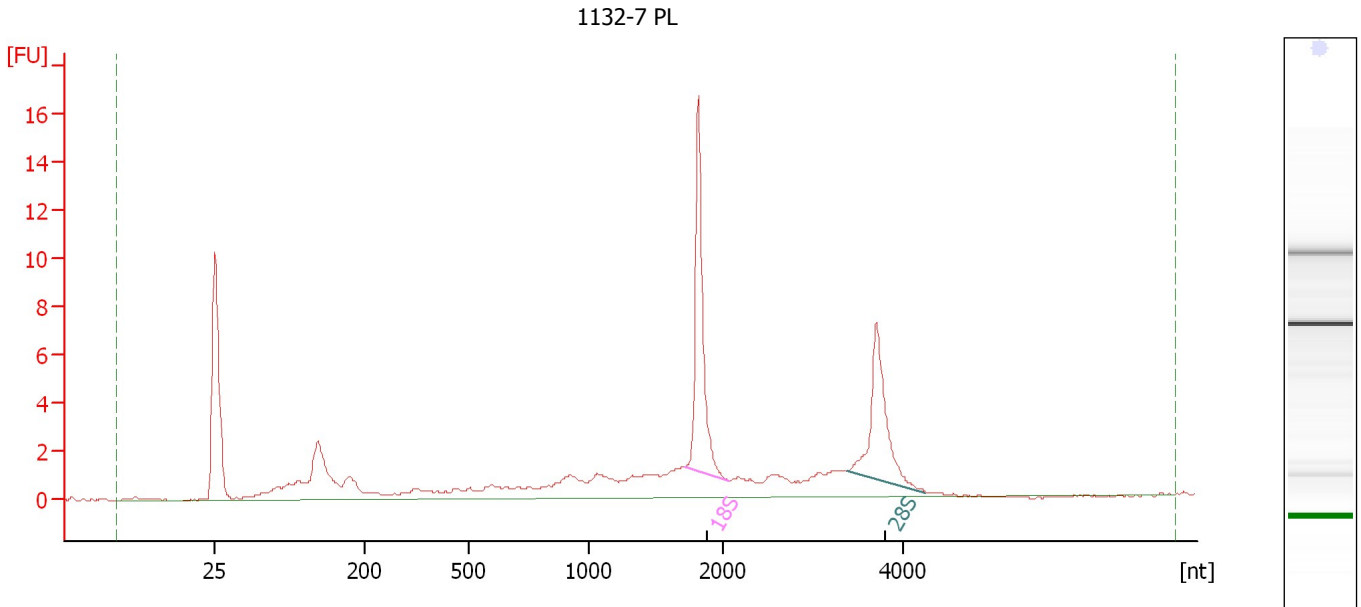
Fragment table for sample 3 : 1132-5 PL

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,687	1,968	99.8	26.5
28S	3,238	4,130	61.0	16.2

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-07-12\2017-07-12_001.xad

Created: 7/12/2017 10:29:31 AM
 Modified: 7/12/2017 11:00:25 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : 1132-7 PL

RNA Area:	74.6	RNA Integrity Number (RIN):	7.4 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	73 ng/μl		
rRNA Ratio [28s / 18s]:	0.7	Result Flagging Color:	
		Result Flagging Label:	RIN: 7.40

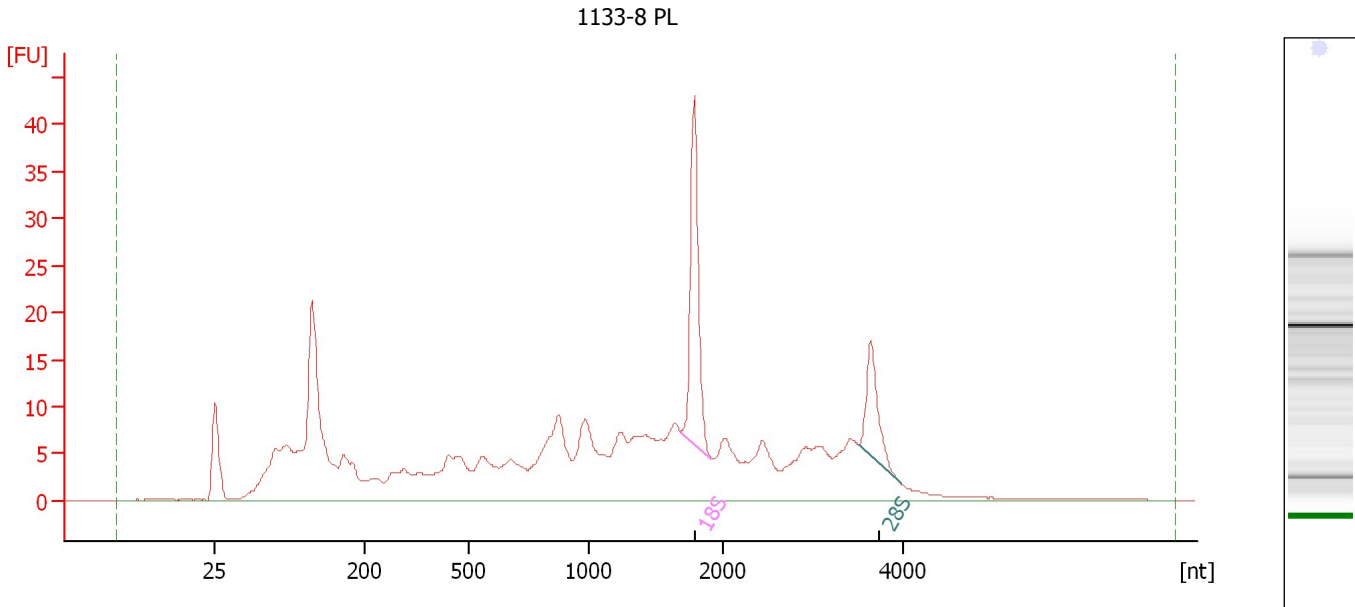
Fragment table for sample 4 : 1132-7 PL

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,713	2,060	13.5	18.1
28S	3,387	4,252	9.4	12.6

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-07-12\2017-07-12_001.xad

Created: 7/12/2017 10:29:31 AM
 Modified: 7/12/2017 11:00:25 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : 1133-8 PL

RNA Area:	441.6	RNA Integrity Number (RIN):	5.3 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	435 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.4	Result Flagging Label:	RIN: 5.30

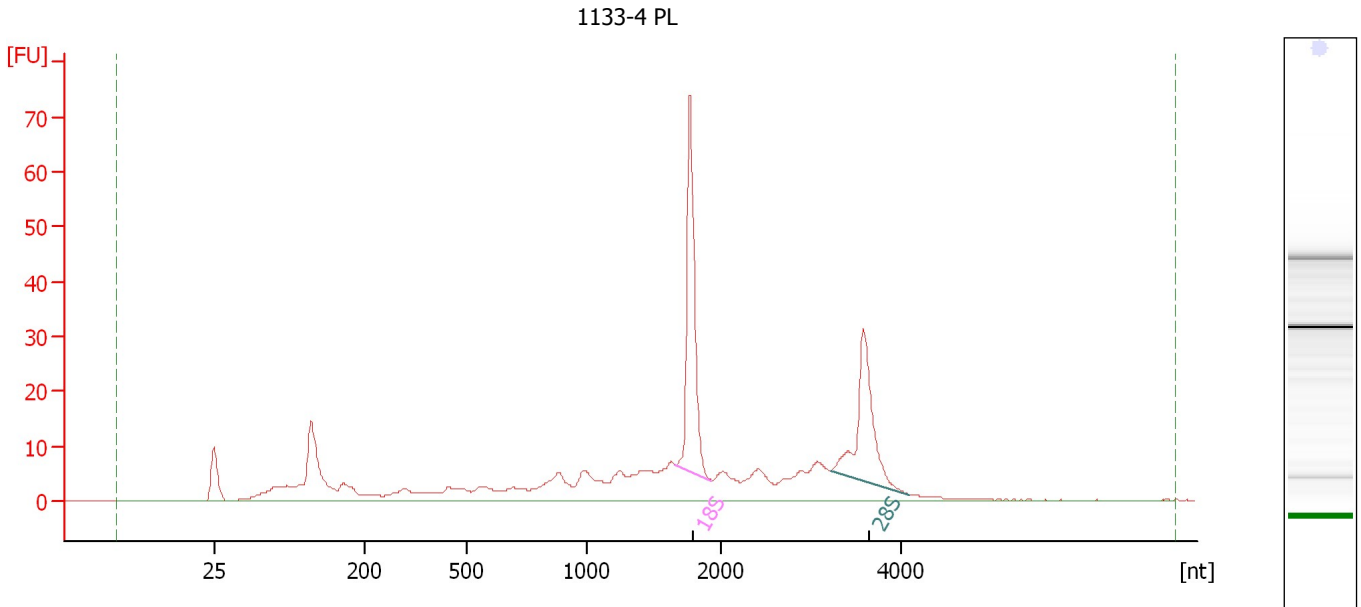
Fragment table for sample 5 : 1133-8 PL

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,681	1,912	32.5	7.4
28S	3,506	3,968	13.9	3.2

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-07-12\2017-07-12_001.xad

Created: 7/12/2017 10:29:31 AM
 Modified: 7/12/2017 11:00:25 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : 1133-4 PL

RNA Area:	362.6	RNA Integrity Number (RIN):	7 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	357 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.7	Result Flagging Label:	RIN:7

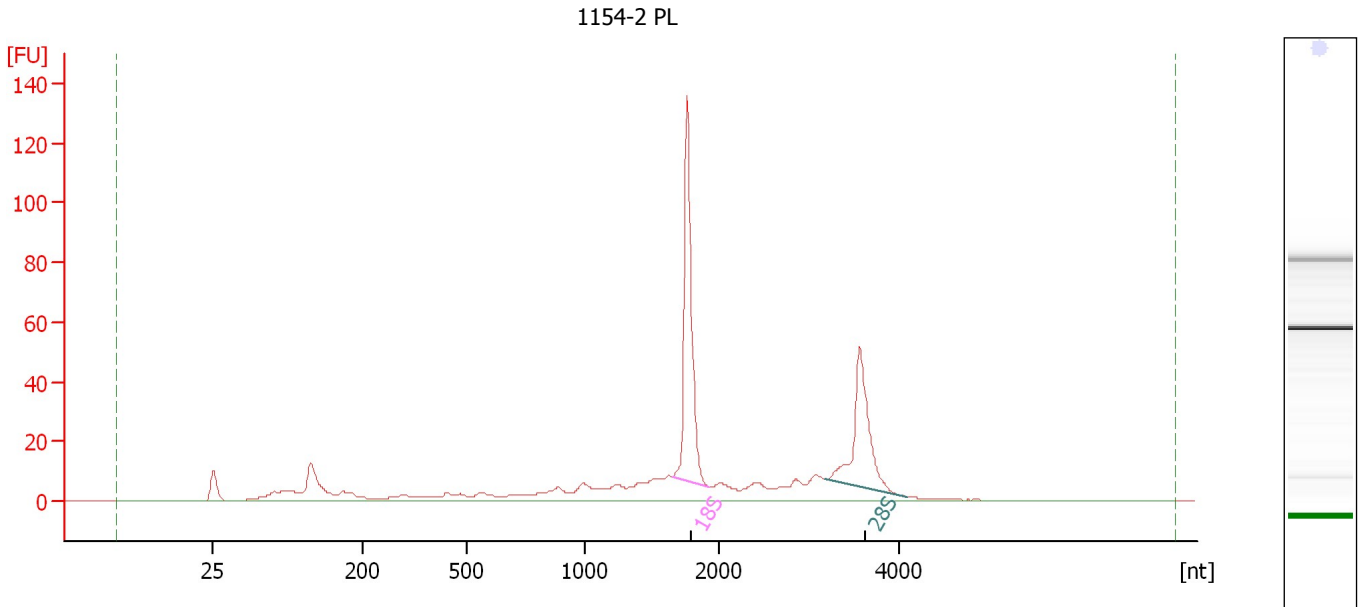
Fragment table for sample 6 : 1133-4 PL

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,664	1,928	58.3	16.1
28S	3,223	4,090	40.7	11.2

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-07-12\2017-07-12_001.xad

Created: 7/12/2017 10:29:31 AM
Modified: 7/12/2017 11:00:25 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : 1154-2 PL

RNA Area: 473.2 RNA Integrity Number (RIN): 7.7 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration: 466 ng/μl
rRNA Ratio [28s / 18s]: 0.6
Result Flagging Color:
Result Flagging Label: RIN: 7.70

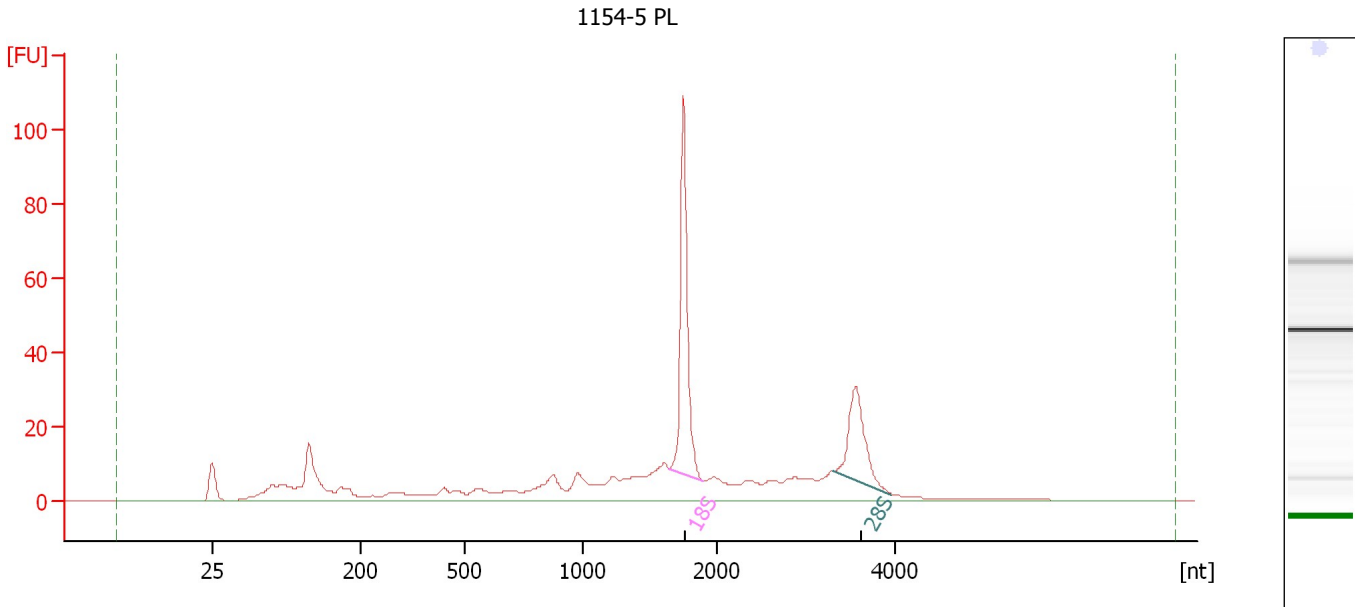
Fragment table for sample 7 : 1154-2 PL

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,655	1,928	110.9	23.4
28S	3,190	4,095	68.9	14.5

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-07-12\2017-07-12_001.xad

Created: 7/12/2017 10:29:31 AM
 Modified: 7/12/2017 11:00:25 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : 1154-5 PL

RNA Area:	459.0	RNA Integrity Number (RIN):	6.9 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	452 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.5	Result Flagging Label:	RIN: 6.90

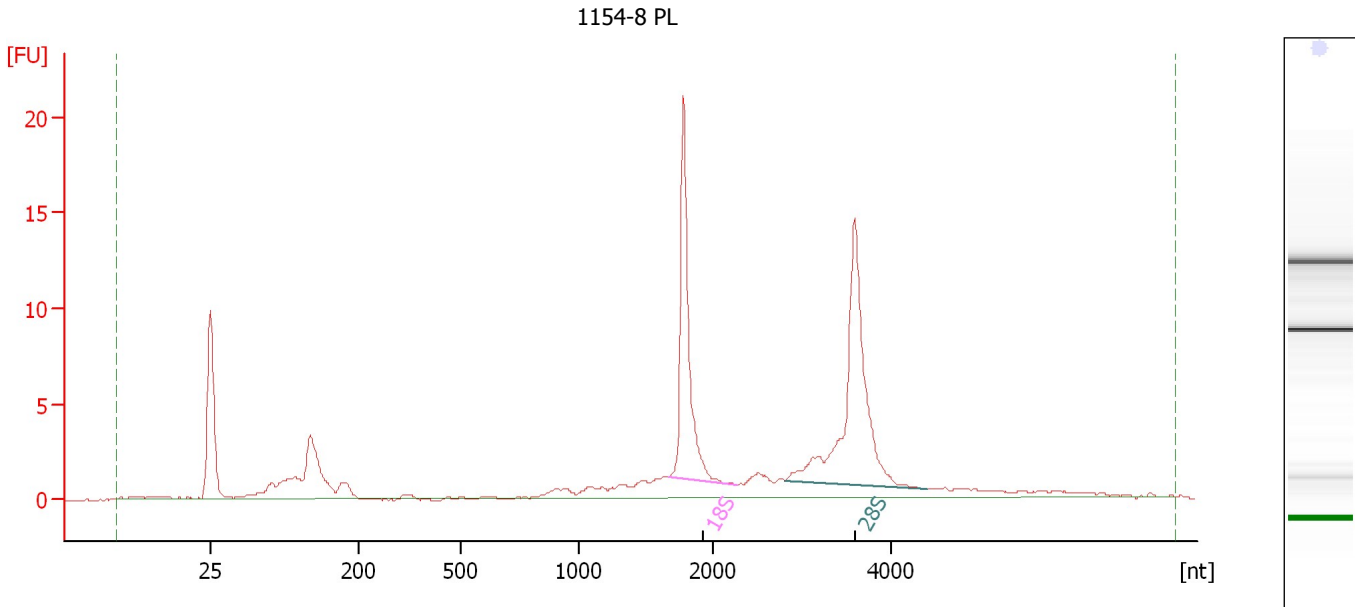
Fragment table for sample 8 : 1154-5 PL

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,646	1,903	85.2	18.6
28S	3,312	3,956	38.6	8.4

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-07-12\2017-07-12_001.xad

Created: 7/12/2017 10:29:31 AM
 Modified: 7/12/2017 11:00:25 AM

Electropherogram Summary Continued ...



Overall Results for sample 9 : 1154-8 PL

RNA Area:	96.5	RNA Integrity Number (RIN):	9.4 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	95 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.3	Result Flagging Label:	RIN: 9.40

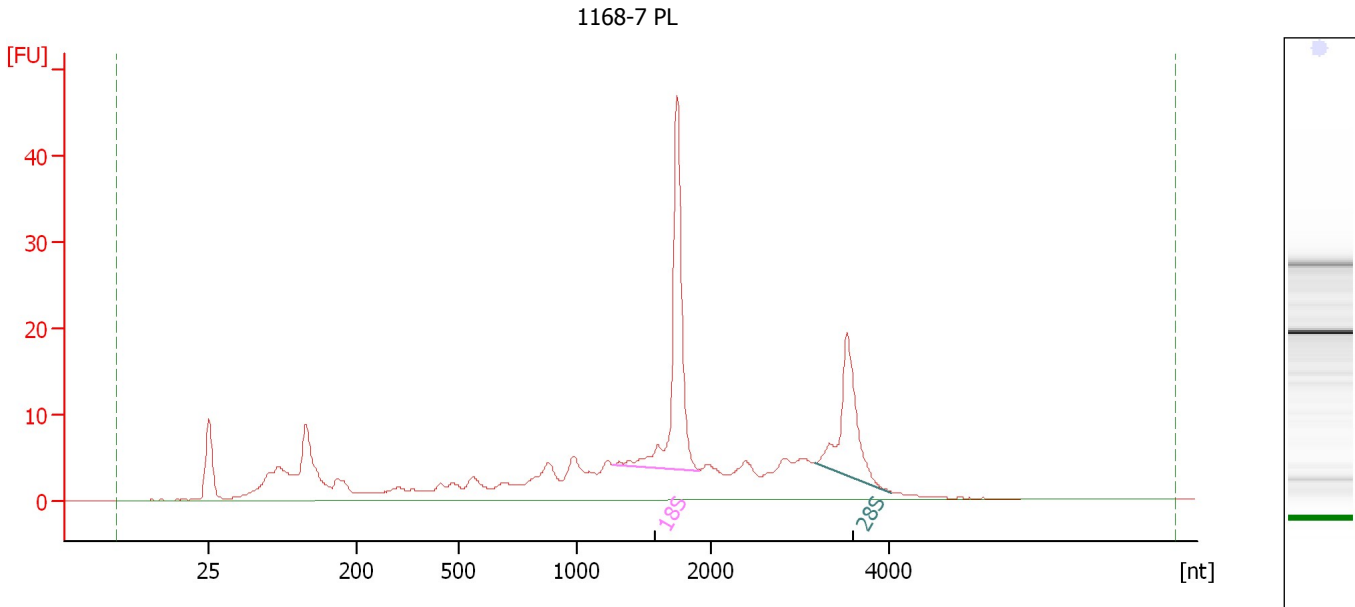
Fragment table for sample 9 : 1154-8 PL

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,677	2,275	19.8	20.5
28S	2,814	4,407	26.4	27.4

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-07-12\2017-07-12_001.xad

Created: 7/12/2017 10:29:31 AM
Modified: 7/12/2017 11:00:25 AM

Electropherogram Summary Continued ...



Overall Results for sample 10 : 1168-7 PL

RNA Area: 288.4 RNA Integrity Number (RIN): 7.3 (B.02.08,
RNA Concentration: 284 ng/μl Anomaly Threshold(s)
rRNA Ratio [28s / 18s]: 0.6 manually adapted)
Result Flagging Color:
Result Flagging Label: RIN: 7.30

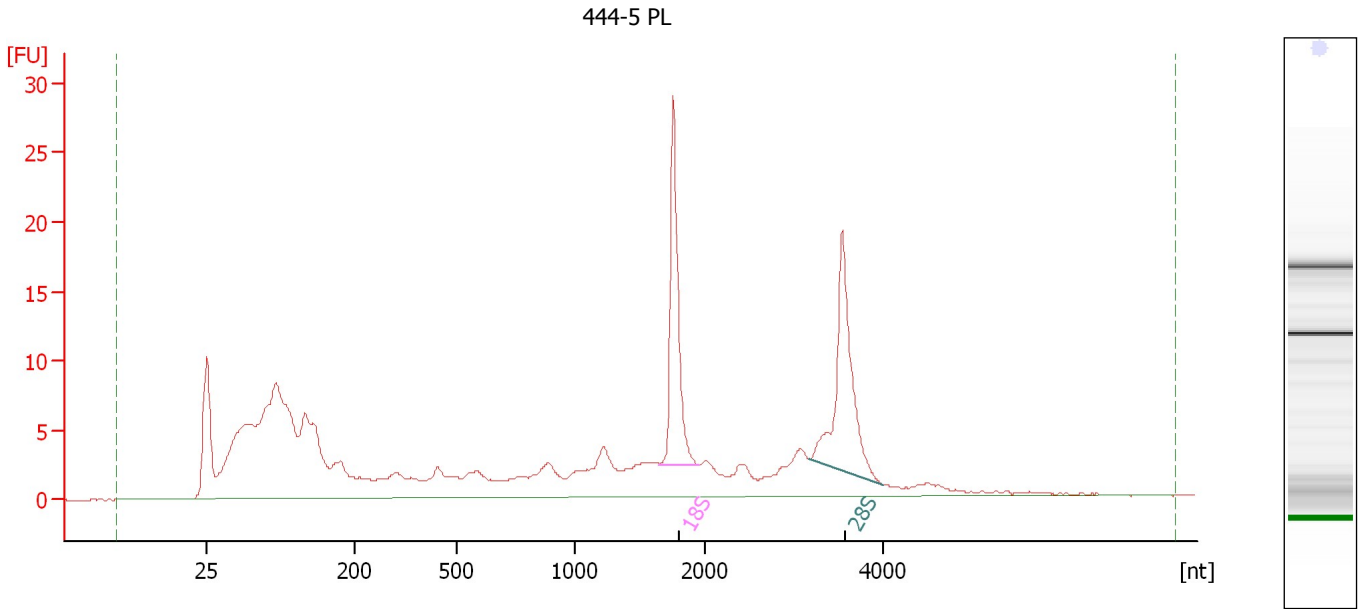
Fragment table for sample 10 : 1168-7 PL

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,272	1,910	45.8	15.9
28S	3,175	4,040	25.8	9.0

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-07-12\2017-07-12_001.xad

Created: 7/12/2017 10:29:31 AM
 Modified: 7/12/2017 11:00:25 AM

Electropherogram Summary Continued ...



Overall Results for sample 11 : 444-5 PL

RNA Area:	276.8	RNA Integrity Number (RIN):	6.9 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	273 ng/μl		
rRNA Ratio [28s / 18s]:	1.1	Result Flagging Color:	
		Result Flagging Label:	RIN: 6.90

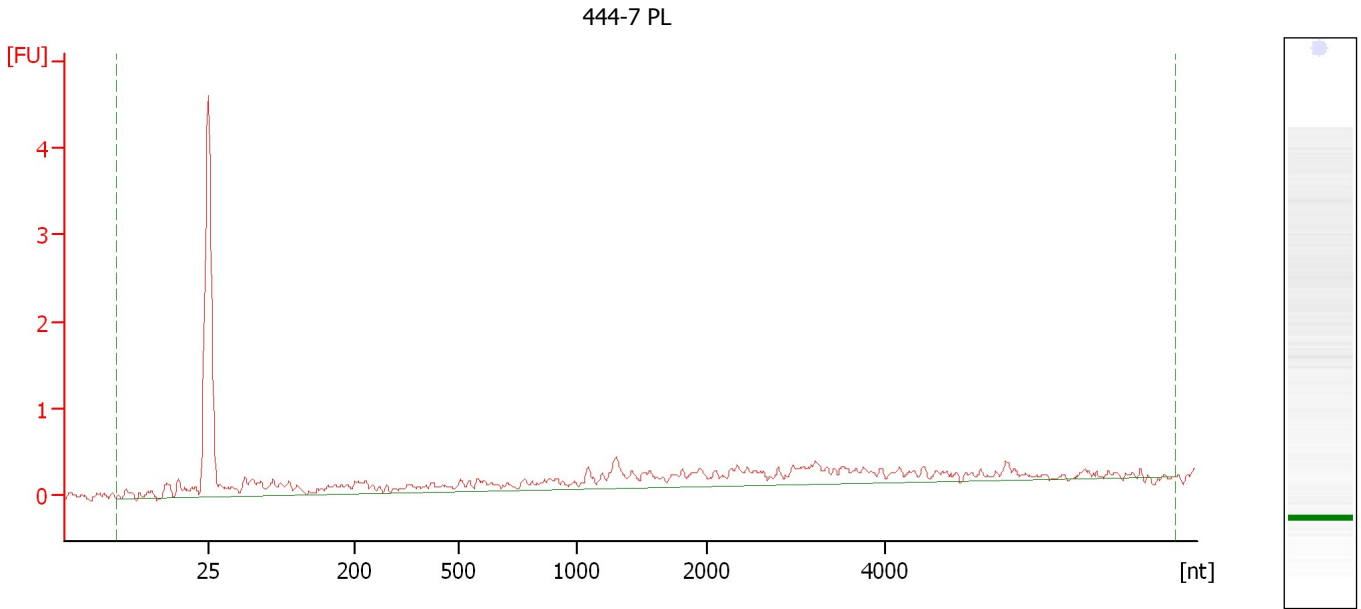
Fragment table for sample 11 : 444-5 PL

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,650	1,942	23.8	8.6
28S	3,156	3,988	26.7	9.6

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-07-12\2017-07-12_001.xad

Created: 7/12/2017 10:29:31 AM
Modified: 7/12/2017 11:00:25 AM

Electropherogram Summary Continued ...



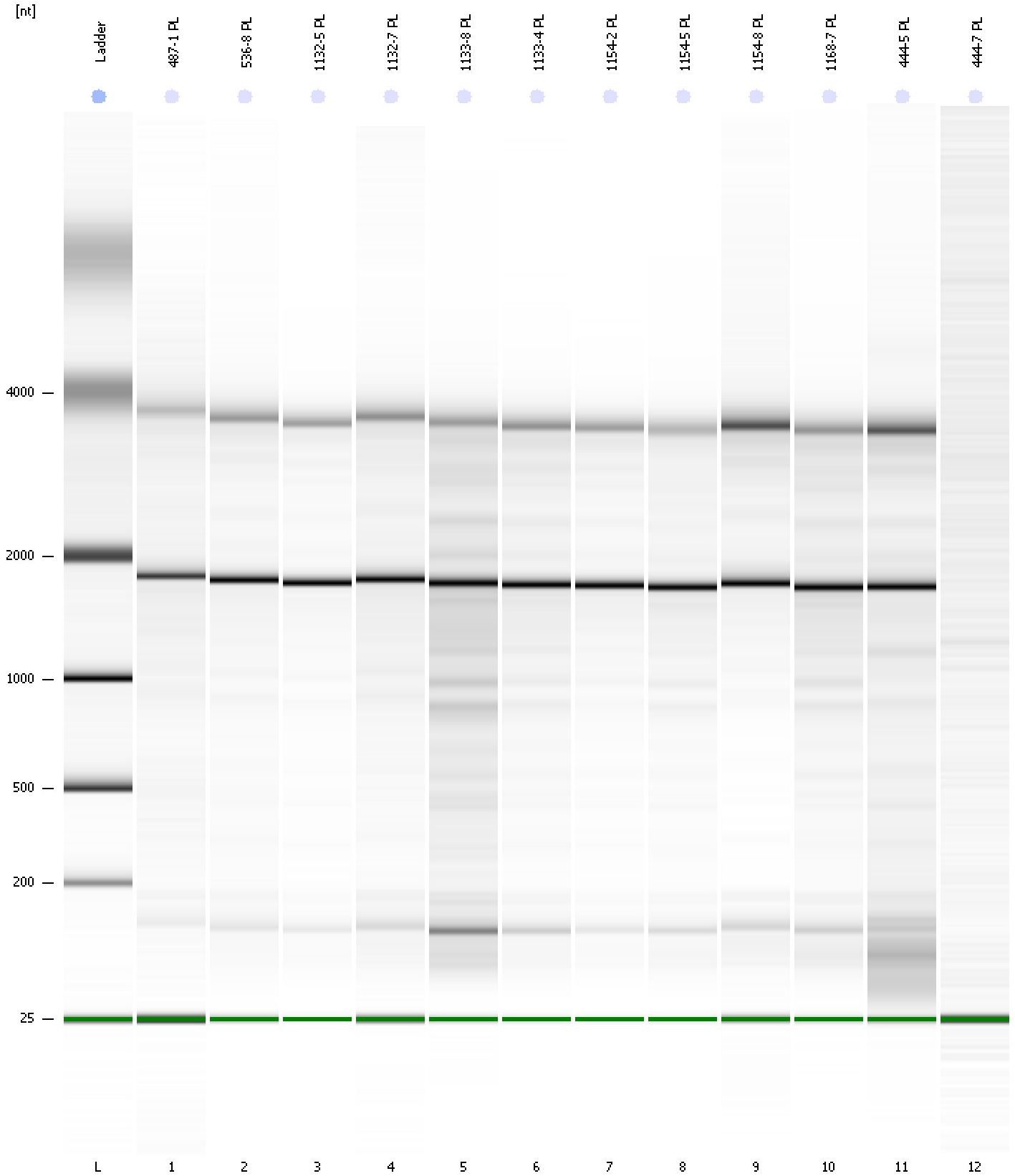
Overall Results for sample 12 : 444-7 PL

RNA Area:	12.1	RNA Integrity Number (RIN):	1 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	12 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN:1

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-07-12\2017-07-12_001.xad

Created: 7/12/2017 10:29:31 AM
Modified: 7/12/2017 11:00:25 AM

Gel Image



Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-07-12\2017-07-12_001.xad

Created: 7/12/2017 10:29:31 AM
Modified: 7/12/2017 11:00:25 AM

Curves

Standard Curve

