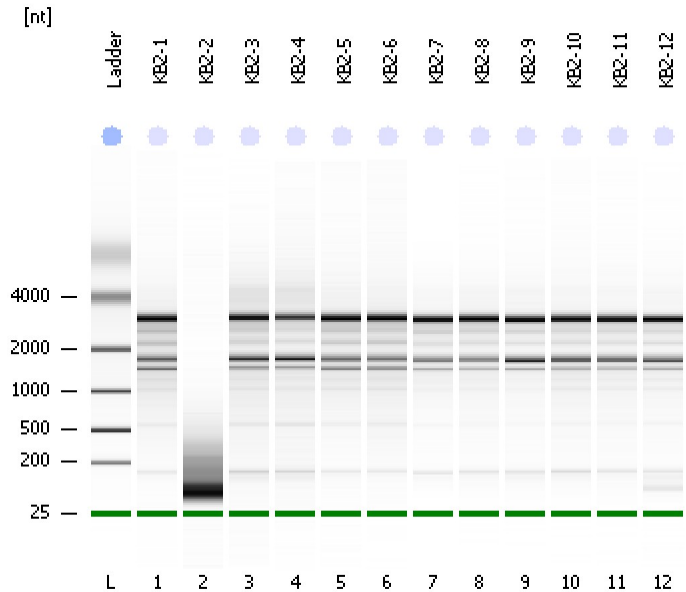


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-19\2014-03-19_001.xad

Created: 3/19/2014 7:33:20 AM
Modified: 3/19/2014 8:25:39 AM

Electrophoresis File Run Summary



Instrument Information:

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

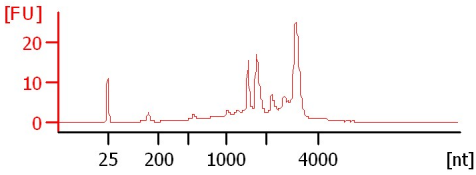
Assay Information:

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.

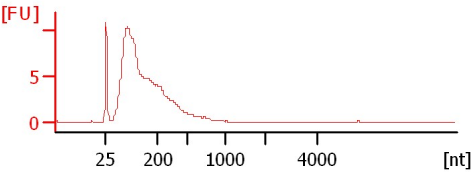
Chip Information:

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

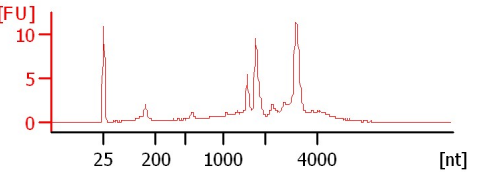
KB2-1
RIN: 7.60



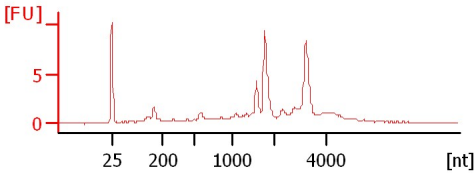
KB2-2
RIN: 2.50



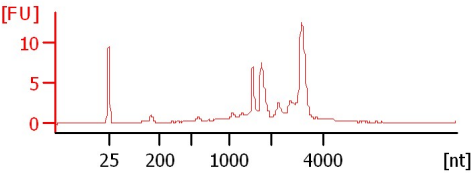
KB2-3
RIN: 7.70



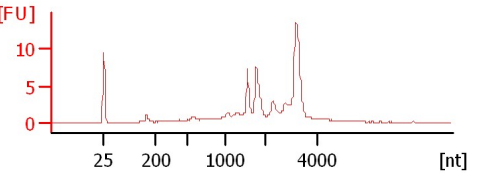
KB2-4
RIN: 7.70



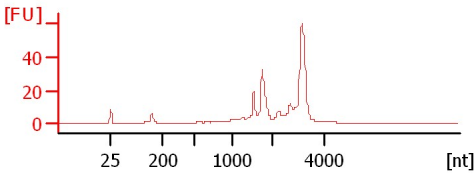
KB2-5
RIN: 7.90



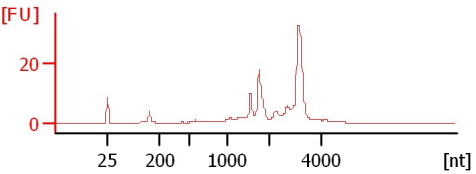
KB2-6
RIN: 7.90



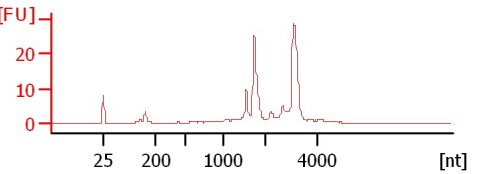
KB2-7
RIN: 8.30



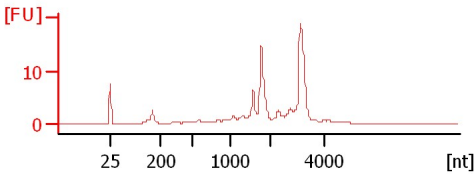
KB2-8
RIN: 8.30



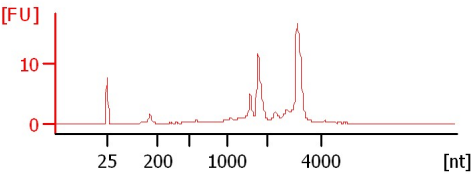
KB2-9
RIN: 8.40



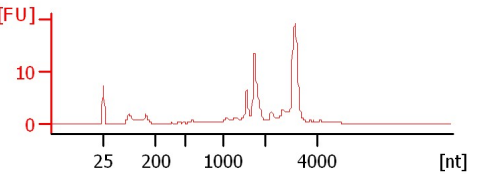
KB2-10
RIN: 8



KB2-11
RIN: 8.20



KB2-12
RIN: 8.30



Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-19\2014-03-19_001.xad

Created: 3/19/2014 7:33:20 AM
Modified: 3/19/2014 8:25:39 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
KB2-1		✓	RIN: 7.60	
KB2-2		✓	RIN: 2.50	
KB2-3		✓	RIN: 7.70	
KB2-4		✓	RIN: 7.70	
KB2-5		✓	RIN: 7.90	
KB2-6		✓	RIN: 7.90	
KB2-7		✓	RIN: 8.30	
KB2-8		✓	RIN: 8.30	
KB2-9		✓	RIN: 8.40	
KB2-10		✓	RIN:8	
KB2-11		✓	RIN: 8.20	
KB2-12		✓	RIN: 8.30	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-19\2014-03-19_001.xad

Created: 3/19/2014 7:33:20 AM
Modified: 3/19/2014 8:25:39 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/ 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

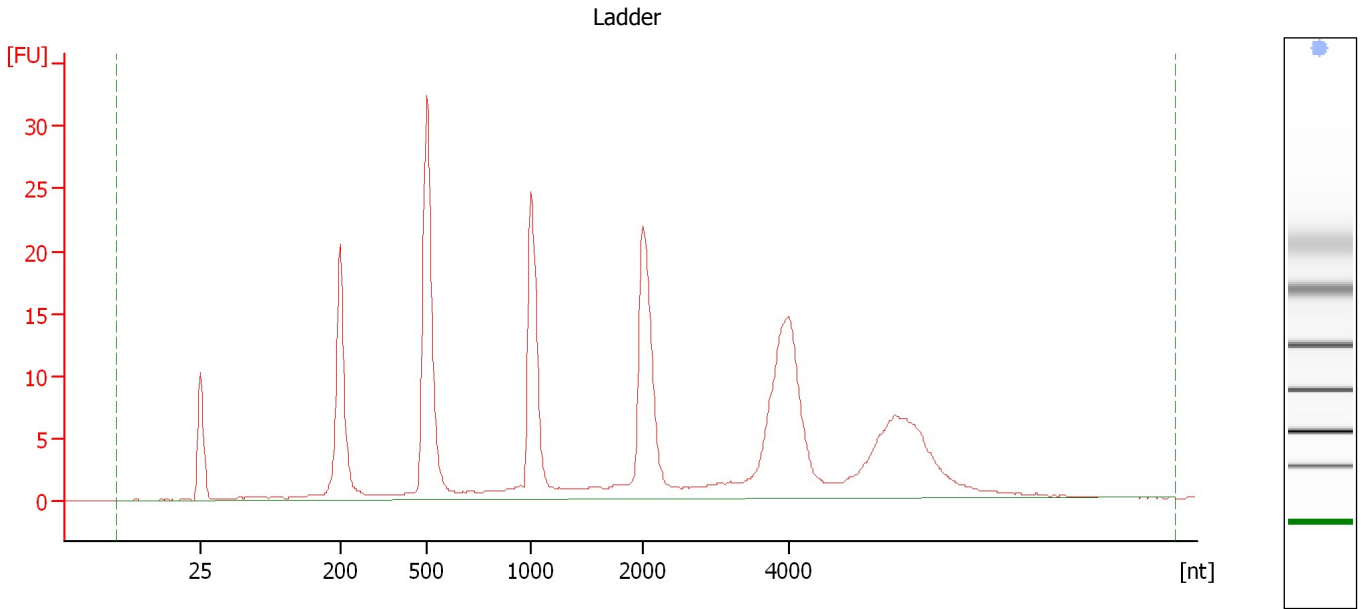
Ladder

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\2014-03-19\2014-03-19_001.xad

Created: 3/19/2014 7:33:20 AM
Modified: 3/19/2014 8:25:39 AM

Electropherogram Summary



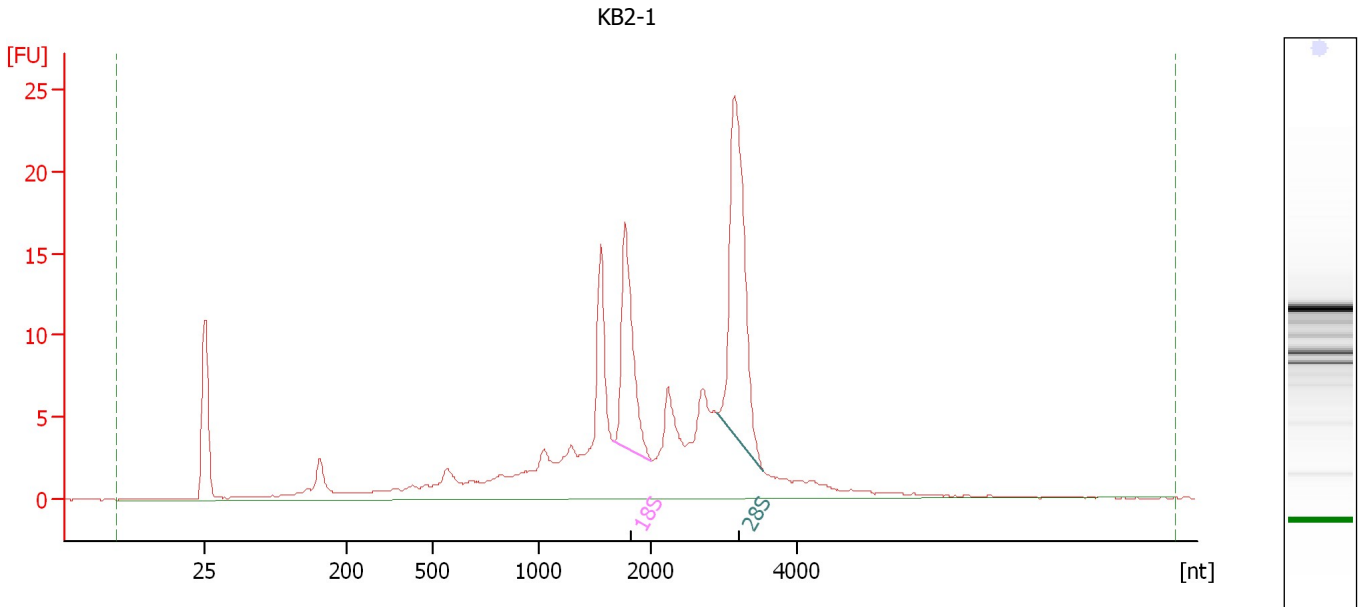
Overall Results for Ladder

RNA Area:	266.0	Result Flagging Color:	
RNA Concentration:	150 ng/ μ l	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-19\2014-03-19_001.xad

Created: 3/19/2014 7:33:20 AM
 Modified: 3/19/2014 8:25:39 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : KB2-1

RNA Area:	191.8	RNA Integrity Number (RIN):	7.6 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	108 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.9	Result Flagging Label:	RIN: 7.60

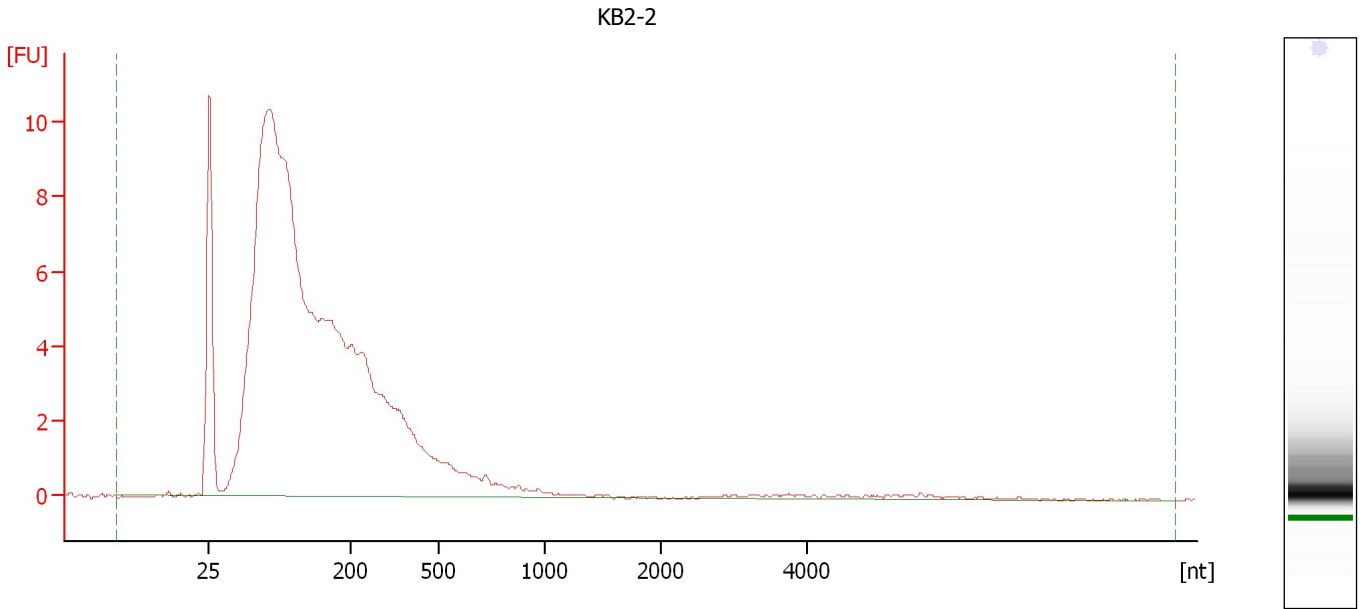
Fragment table for sample 1 : KB2-1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,664	1,994	18.7	9.8
28S	2,888	3,534	34.9	18.2

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-19\2014-03-19_001.xad

Created: 3/19/2014 7:33:20 AM
Modified: 3/19/2014 8:25:39 AM

Electropherogram Summary Continued ...



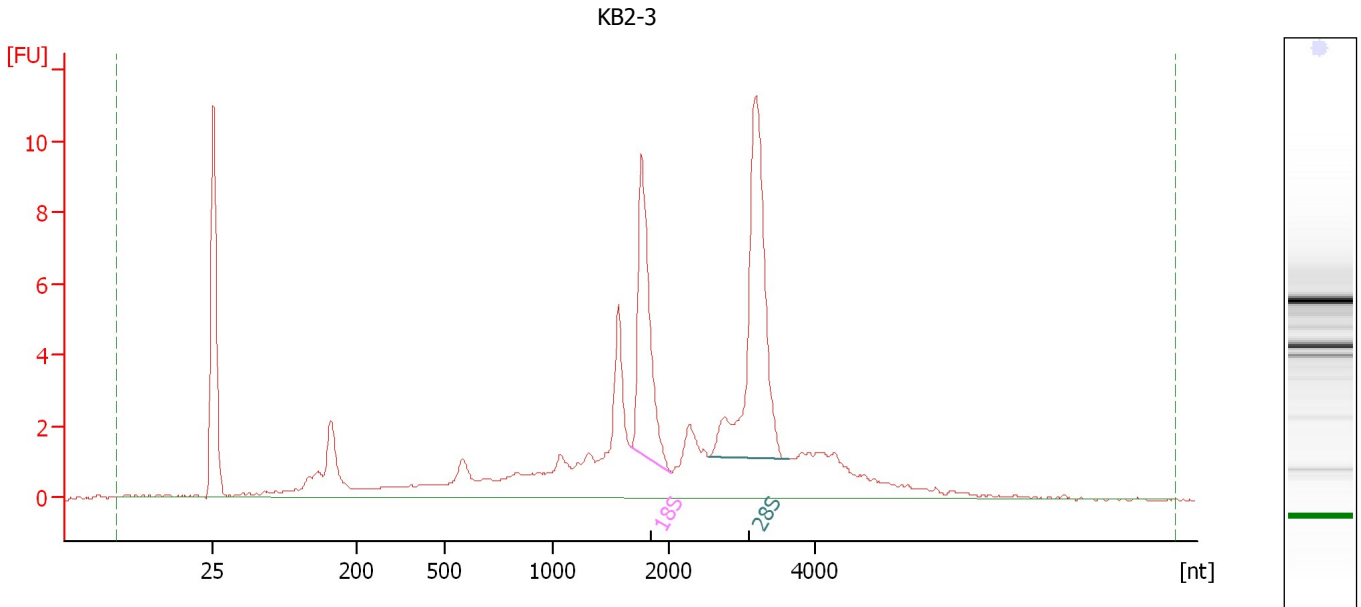
Overall Results for sample 2 : KB2-2

RNA Area:	160.3	RNA Integrity Number (RIN):	2.5 (B.02.08)
RNA Concentration:	90 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.50

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-19\2014-03-19_001.xad

Created: 3/19/2014 7:33:20 AM
 Modified: 3/19/2014 8:25:39 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : KB2-3

RNA Area:	93.3	RNA Integrity Number (RIN):	7.7 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	53 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.6	Result Flagging Label:	RIN: 7.70

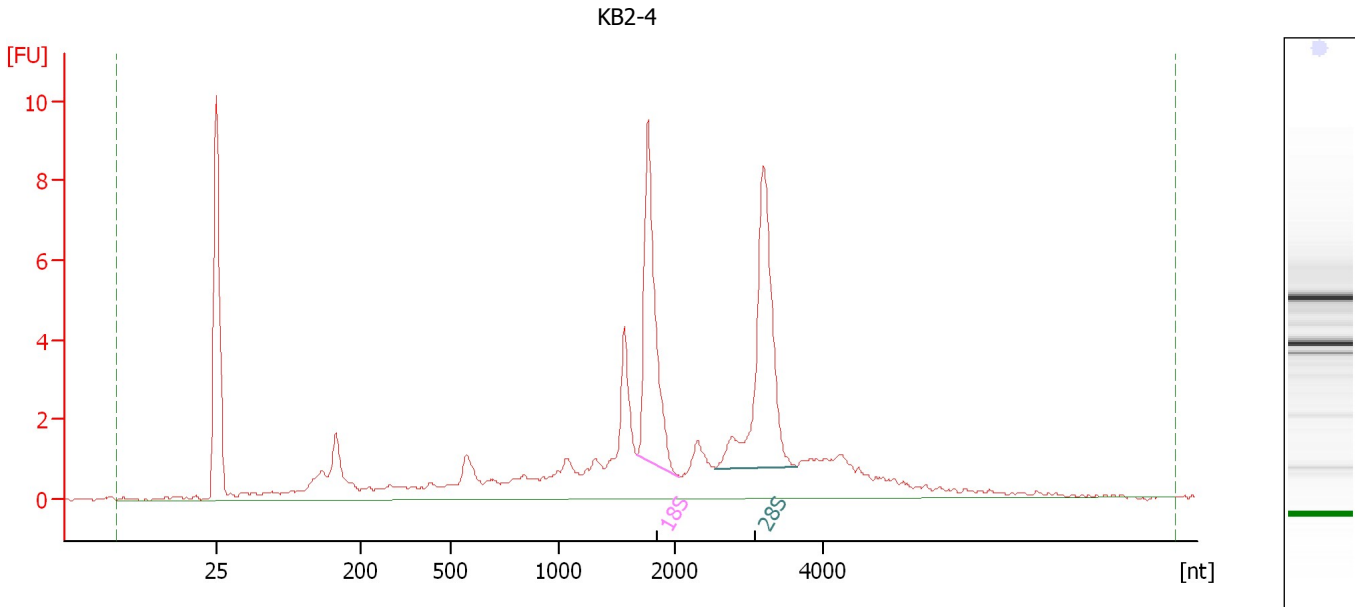
Fragment table for sample 3 : KB2-3

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,678	2,048	11.6	12.5
28S	2,554	3,637	19.1	20.5

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-19\2014-03-19_001.xad

Created: 3/19/2014 7:33:20 AM
 Modified: 3/19/2014 8:25:39 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : KB2-4

RNA Area:	77.1	RNA Integrity Number (RIN):	7.7 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	43 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.2	Result Flagging Label:	RIN: 7.70

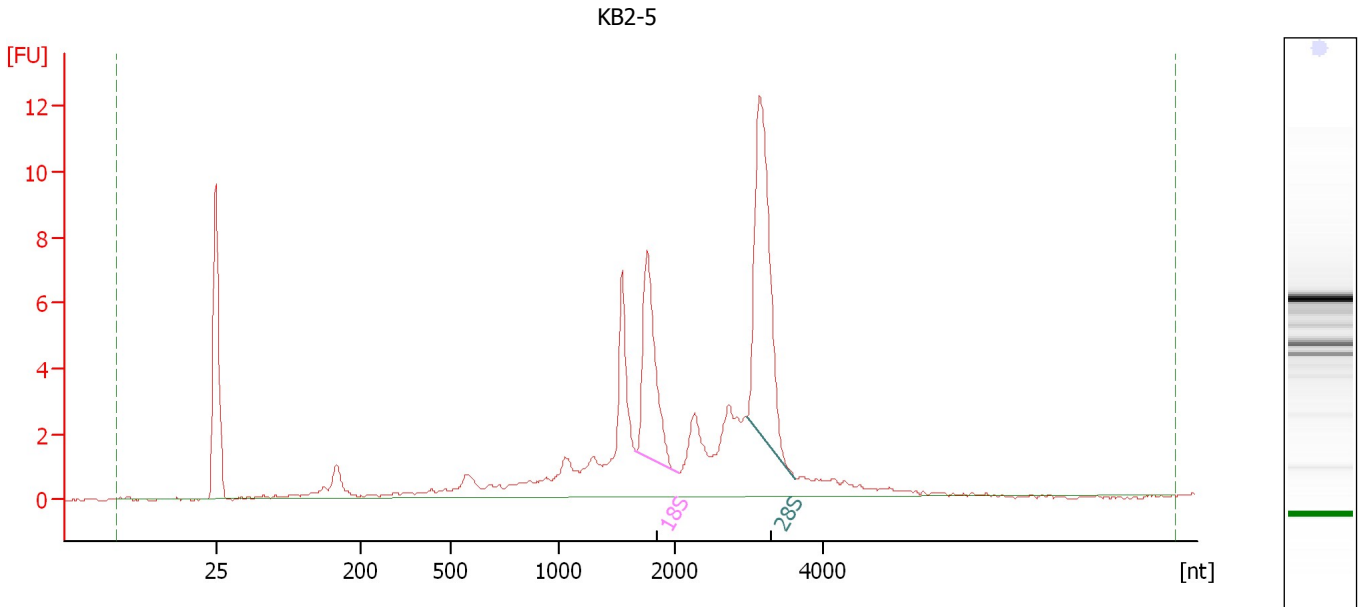
Fragment table for sample 4 : KB2-4

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,683	2,067	11.1	14.4
28S	2,555	3,646	13.7	17.7

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-19\2014-03-19_001.xad

Created: 3/19/2014 7:33:20 AM
 Modified: 3/19/2014 8:25:39 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : KB2-5

RNA Area:	80.8	RNA Integrity Number (RIN):	7.9 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	46 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.8	Result Flagging Label:	RIN: 7.90

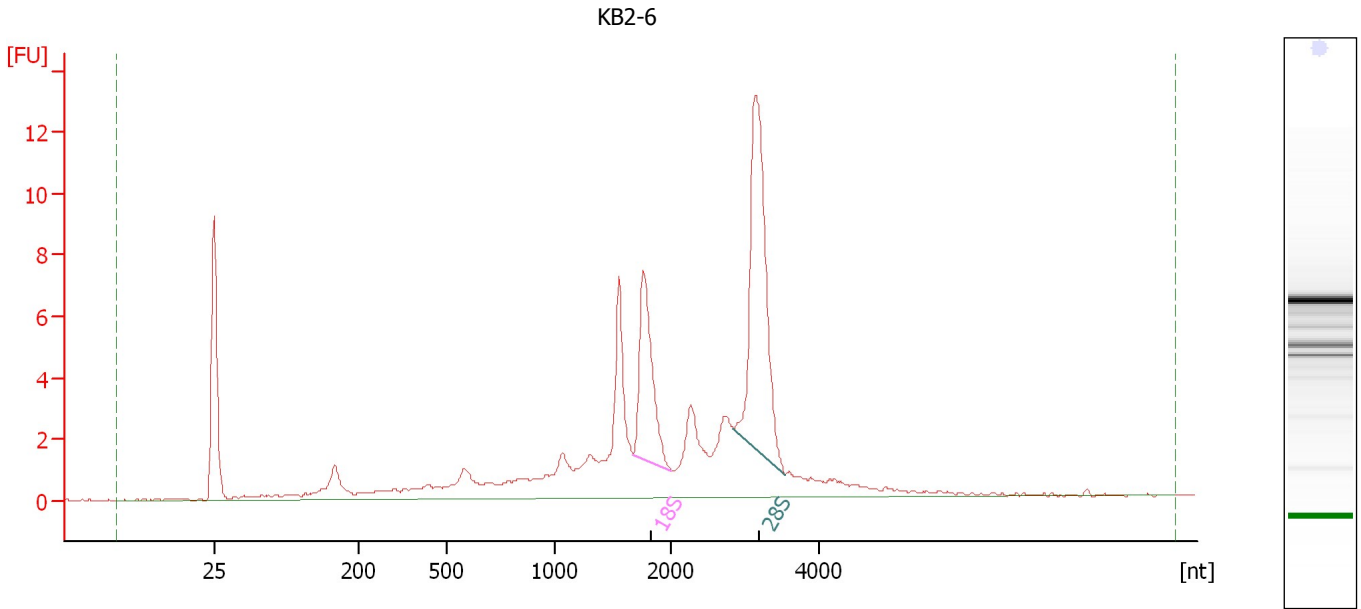
Fragment table for sample 5 : KB2-5

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,665	2,053	9.3	11.6
28S	2,971	3,617	17.0	21.0

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-19\2014-03-19_001.xad

Created: 3/19/2014 7:33:20 AM
Modified: 3/19/2014 8:25:39 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : KB2-6

RNA Area:	91.6	RNA Integrity Number (RIN):	7.9 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	52 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.1	Result Flagging Label:	RIN: 7.90

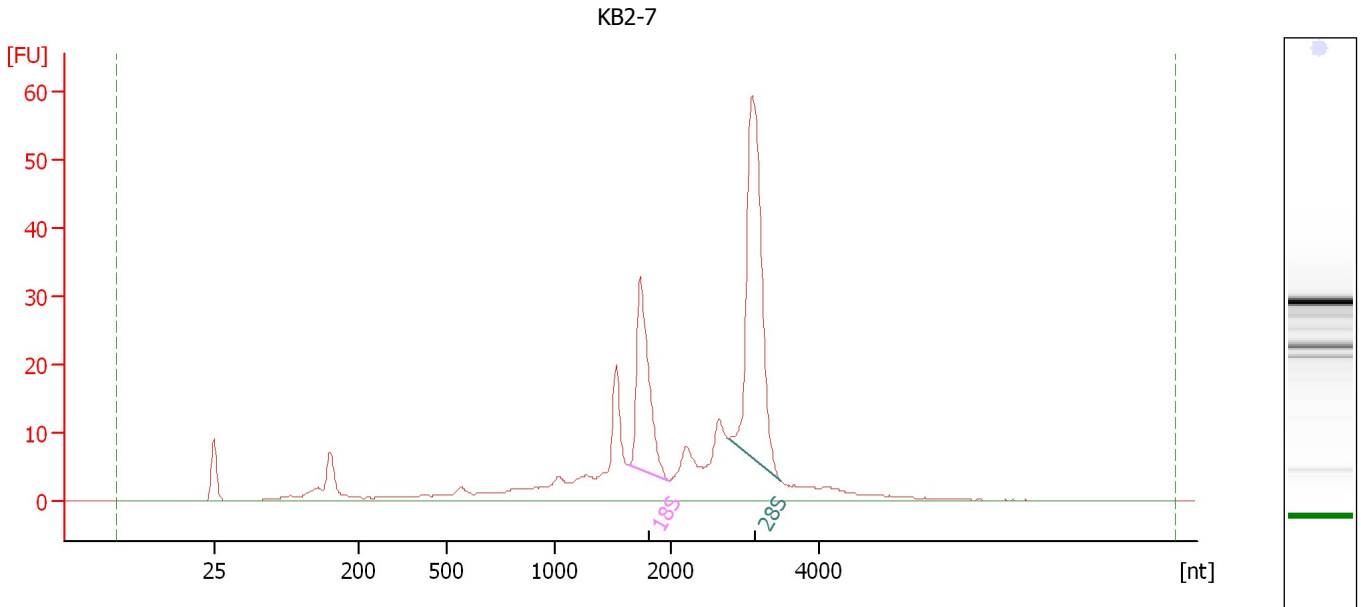
Fragment table for sample 6 : KB2-6

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,680	2,021	9.2	10.1
28S	2,857	3,549	19.5	21.3

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-19\2014-03-19_001.xad

Created: 3/19/2014 7:33:20 AM
 Modified: 3/19/2014 8:25:39 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : KB2-7

RNA Area:	326.3	RNA Integrity Number (RIN):	8.3 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	184 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.1	Result Flagging Label:	RIN: 8.30

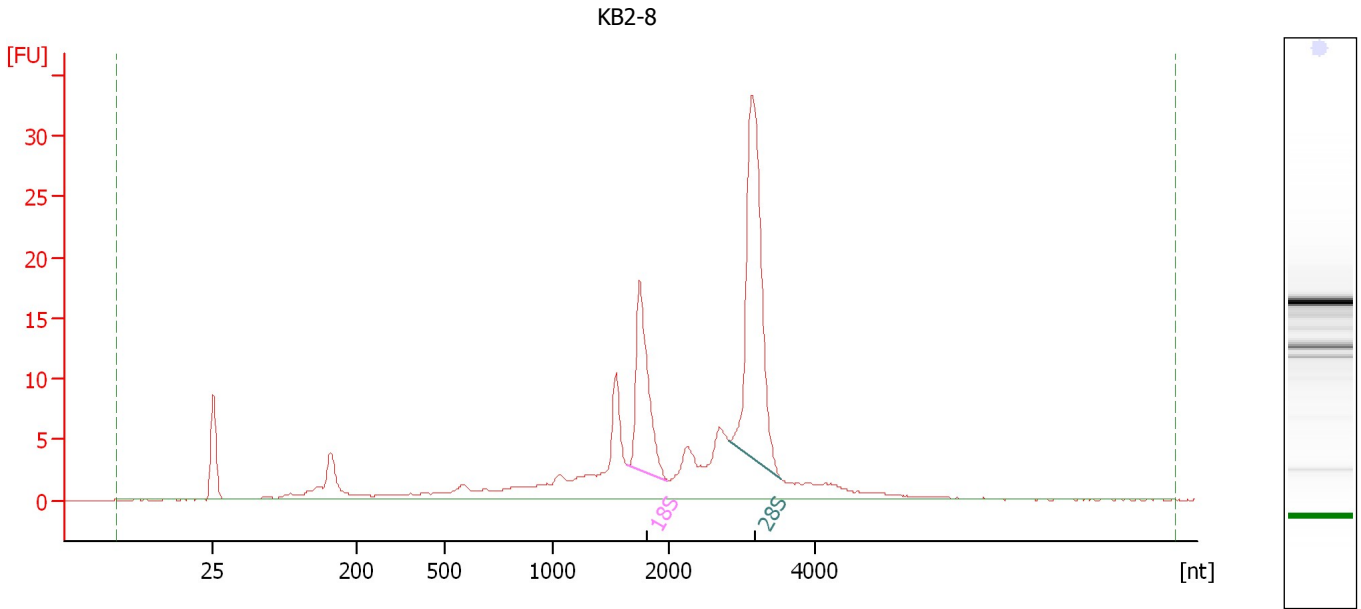
Fragment table for sample 7 : KB2-7

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,642	1,985	41.8	12.8
28S	2,785	3,491	86.9	26.6

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-19\2014-03-19_001.xad

Created: 3/19/2014 7:33:20 AM
Modified: 3/19/2014 8:25:39 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : KB2-8

RNA Area: 184.6 RNA Integrity Number (RIN): 8.3 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration: 104 ng/μl
rRNA Ratio [28s / 18s]: 2.2
Result Flagging Color:
Result Flagging Label: RIN: 8.30

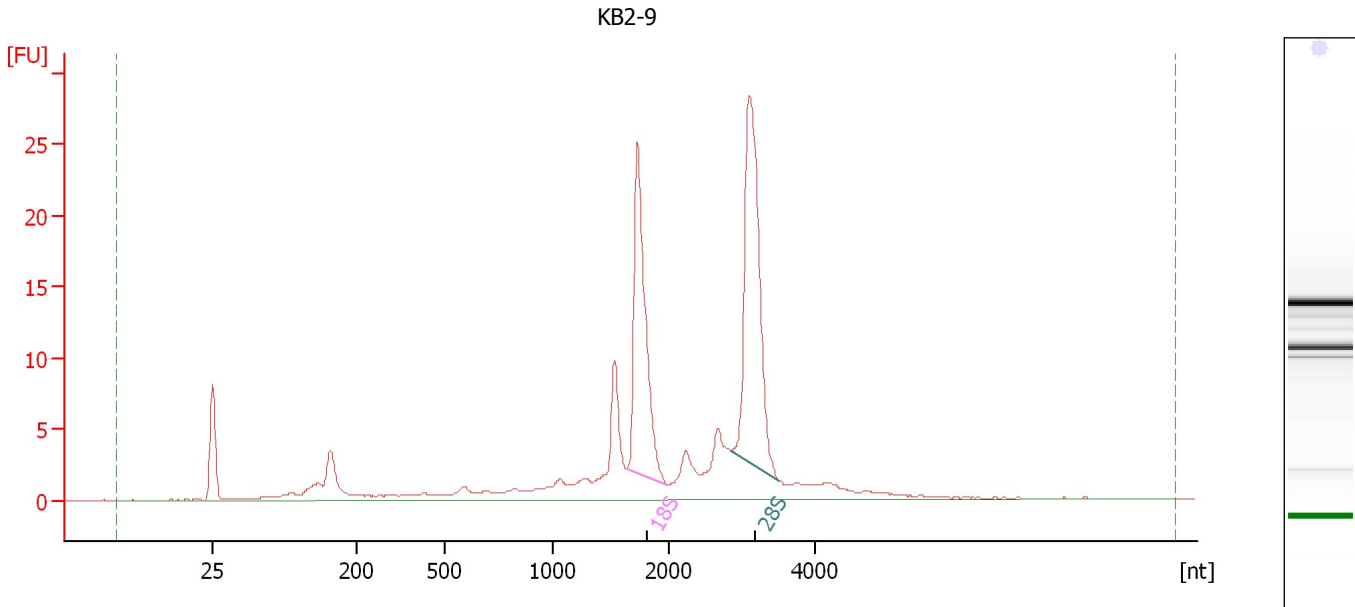
Fragment table for sample 8 : KB2-8

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,650	1,994	22.6	12.2
28S	2,828	3,536	49.1	26.6

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-19\2014-03-19_001.xad

Created: 3/19/2014 7:33:20 AM
 Modified: 3/19/2014 8:25:39 AM

Electropherogram Summary Continued ...



Overall Results for sample 9 : KB2-9

RNA Area:	161.8	RNA Integrity Number (RIN):	8.4 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	91 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.3	Result Flagging Label:	RIN: 8.40

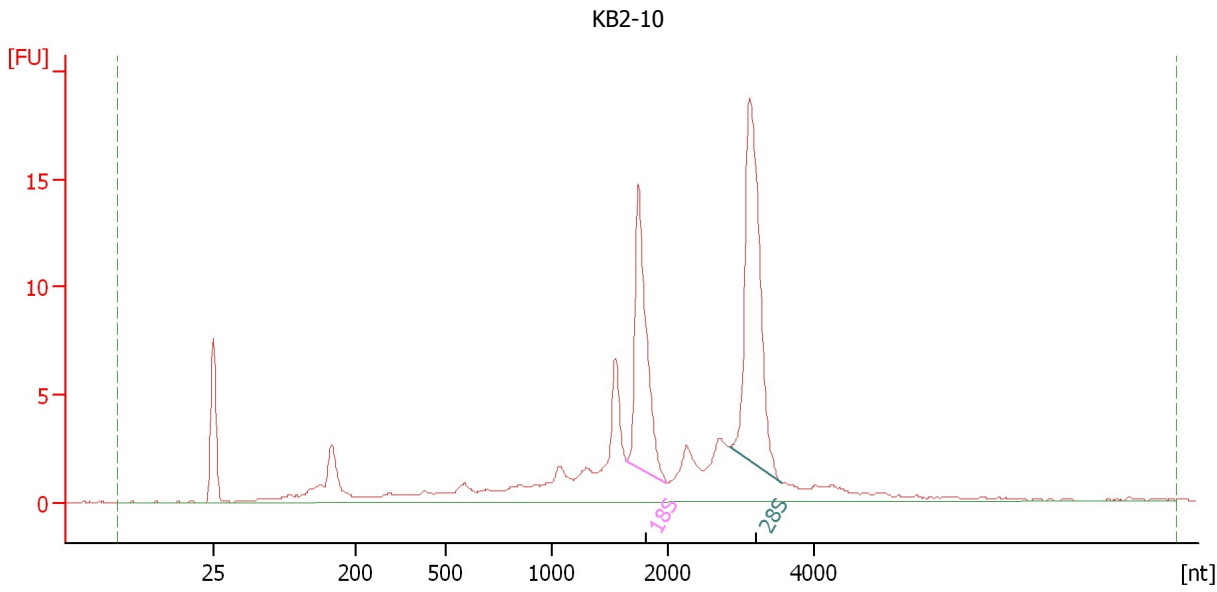
Fragment table for sample 9 : KB2-9

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,641	1,984	32.4	20.0
28S	2,857	3,492	41.6	25.7

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-19\2014-03-19_001.xad

Created: 3/19/2014 7:33:20 AM
 Modified: 3/19/2014 8:25:39 AM

Electropherogram Summary Continued ...



Overall Results for sample 10 : KB2-10

RNA Area:	118.0	RNA Integrity Number (RIN):	8 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	67 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.5	Result Flagging Label:	RIN:8

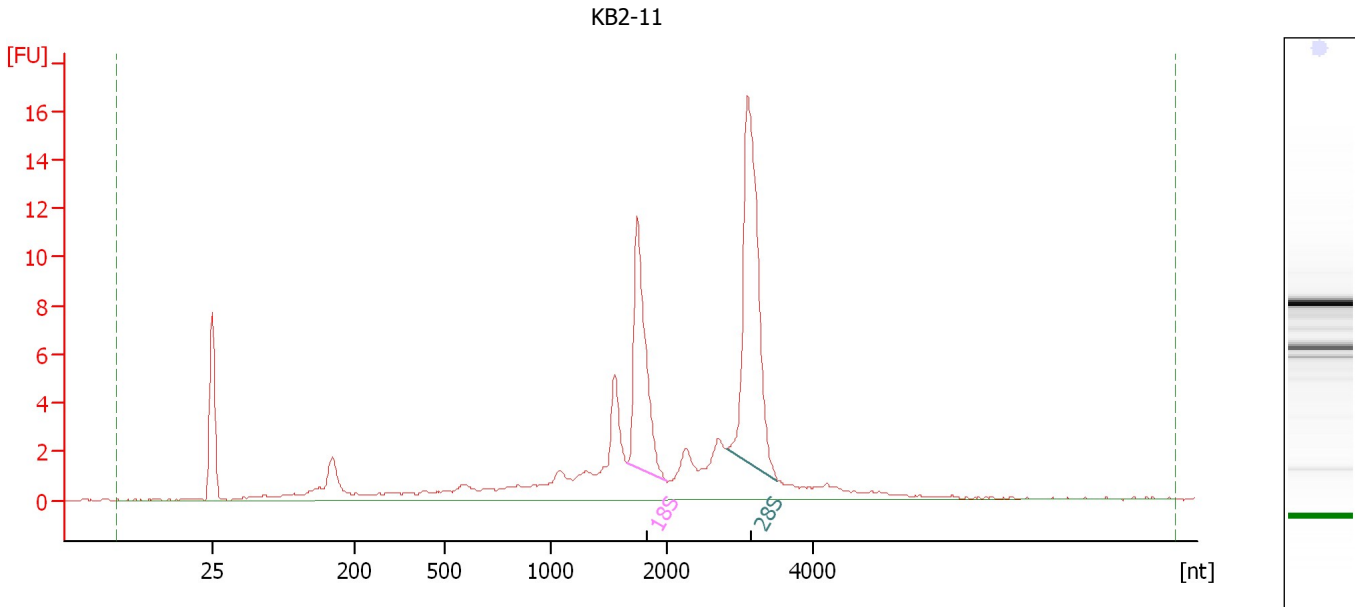
Fragment table for sample 10 : KB2-10

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,648	1,992	18.3	15.6
28S	2,857	3,552	27.6	23.4

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-19\2014-03-19_001.xad

Created: 3/19/2014 7:33:20 AM
 Modified: 3/19/2014 8:25:39 AM

Electropherogram Summary Continued ...



Overall Results for sample 11 : KB2-11

RNA Area:	95.6	RNA Integrity Number (RIN):	8.2 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	54 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.7	Result Flagging Label:	RIN: 8.20

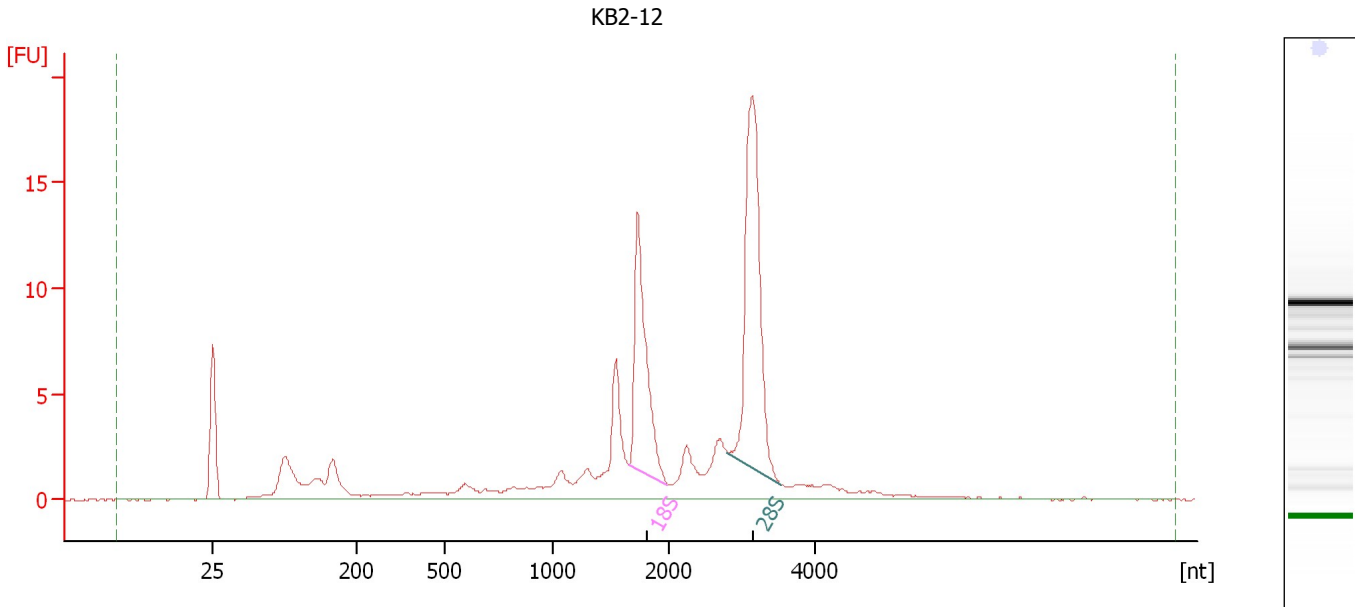
Fragment table for sample 11 : KB2-11

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,667	2,003	14.8	15.4
28S	2,828	3,508	24.5	25.6

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-19\2014-03-19_001.xad

Created: 3/19/2014 7:33:20 AM
 Modified: 3/19/2014 8:25:39 AM

Electropherogram Summary Continued ...



Overall Results for sample 12 : KB2-12

RNA Area:	111.6	RNA Integrity Number (RIN):	8.3 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	63 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.6	Result Flagging Label:	RIN: 8.30

Fragment table for sample 12 : KB2-12

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,659	1,994	17.1	15.4
28S	2,799	3,536	27.8	24.9