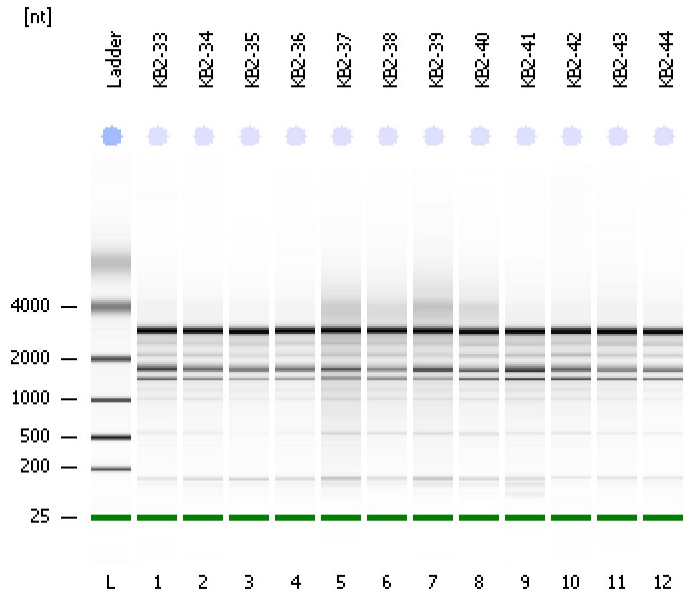


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-27\2014-03-27_001.xad

Created: 3/27/2014 9:52:25 AM
Modified: 3/27/2014 10:25:47 AM

Electrophoresis File Run Summary



Instrument Information:

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

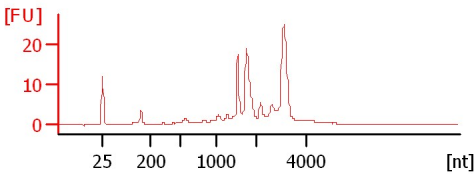
Assay Information:

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.

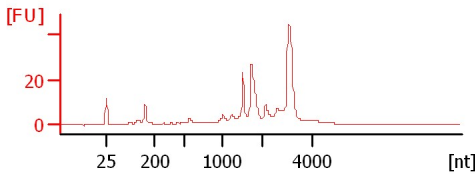
Chip Information:

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

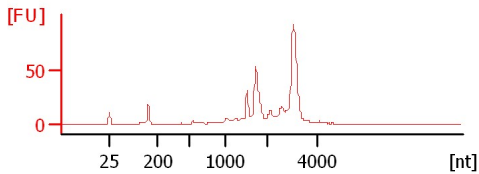
KB2-33
RIN: 7.90



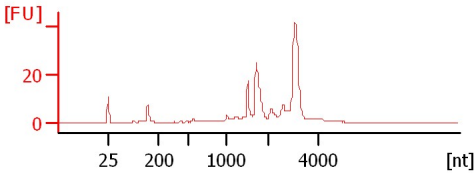
KB2-34
RIN: 8.10



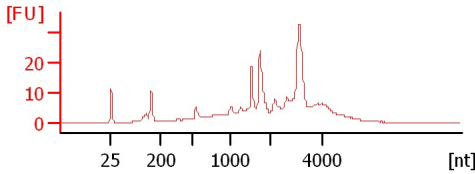
KB2-35
RIN: 8.40



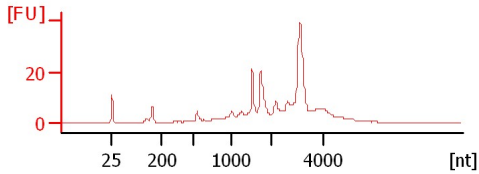
KB2-36
RIN: 8.40



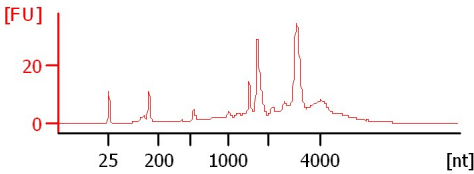
KB2-37
RIN: 6.80



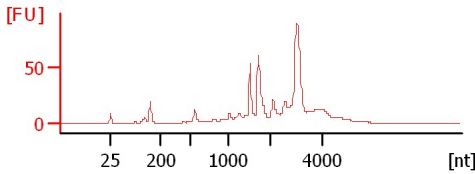
KB2-38
RIN: 7.20



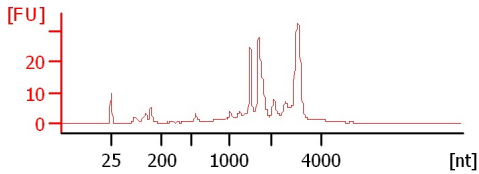
KB2-39
RIN: 7.30



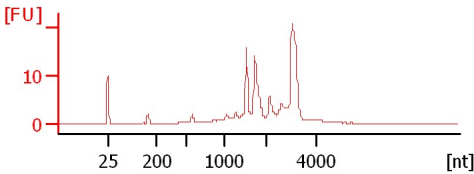
KB2-40
RIN: 7.60



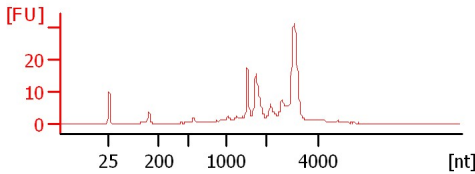
KB2-41
RIN: 7.60



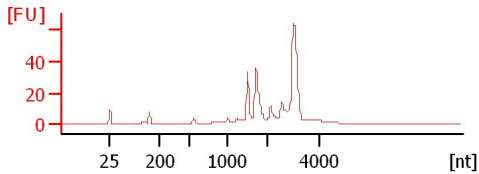
KB2-42
RIN: 8.10



KB2-43
RIN: 8.10



KB2-44
RIN: 8.40



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-27\2014-03-27_001.xad

Created: 3/27/2014 9:52:25 AM
 Modified: 3/27/2014 10:25:47 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
KB2-33		✓	RIN: 7.90	
KB2-34		✓	RIN: 8.10	
KB2-35		✓	RIN: 8.40	
KB2-36		✓	RIN: 8.40	
KB2-37		✓	RIN: 6.80	
KB2-38		✓	RIN: 7.20	
KB2-39		✓	RIN: 7.30	
KB2-40		✓	RIN: 7.60	
KB2-41		✓	RIN: 7.60	
KB2-42		✓	RIN: 8.10	
KB2-43		✓	RIN: 8.10	
KB2-44		✓	RIN: 8.40	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-27\2014-03-27_001.xad

Created: 3/27/2014 9:52:25 AM
Modified: 3/27/2014 10:25:47 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

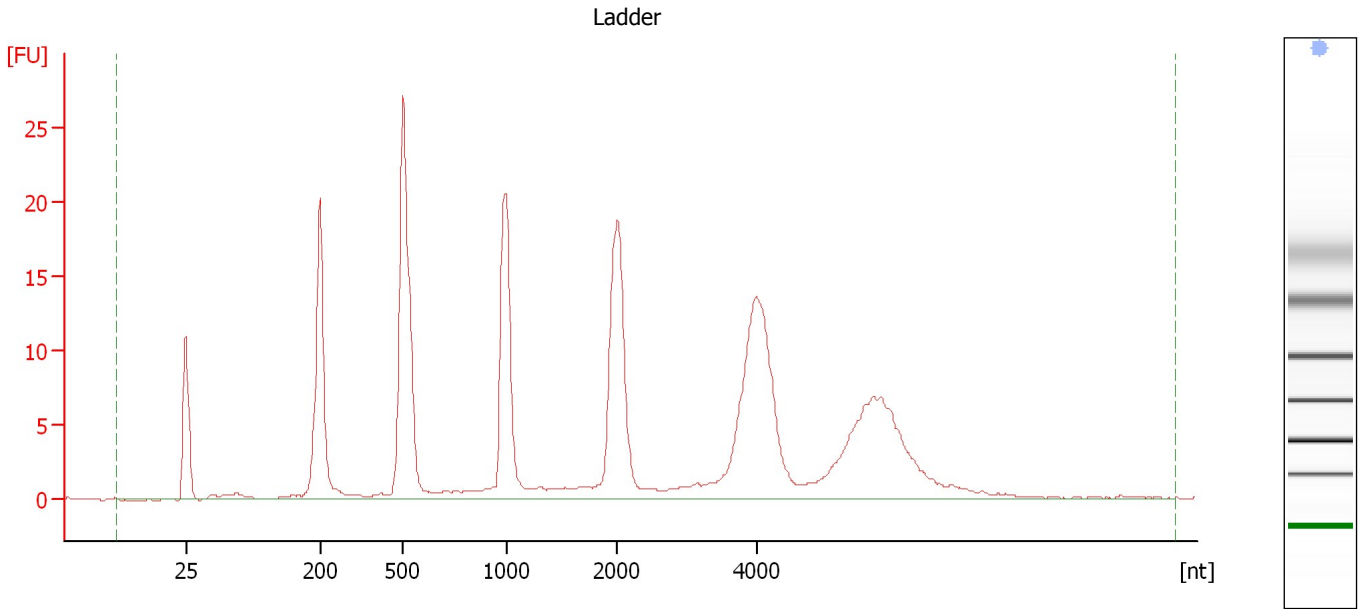
Ladder

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

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-27\2014-03-27_001.xad

Created: 3/27/2014 9:52:25 AM
Modified: 3/27/2014 10:25:47 AM

Electropherogram Summary



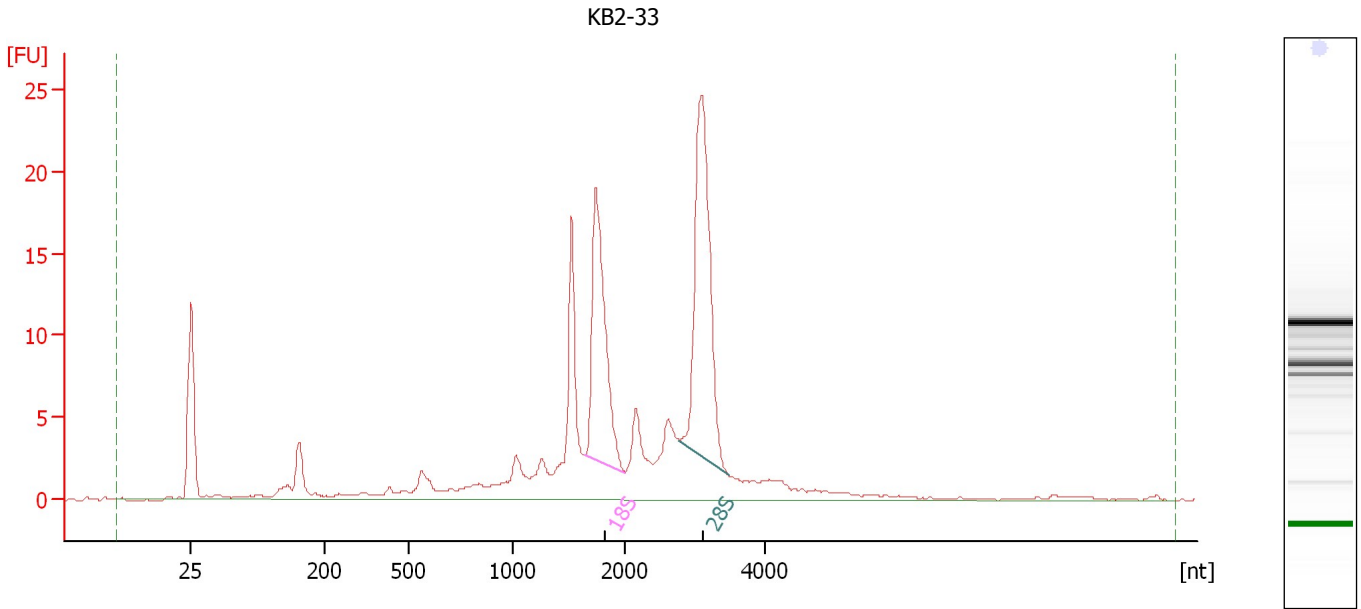
Overall Results for Ladder

RNA Area:	244.6	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\2014-03-27\2014-03-27_001.xad

Created: 3/27/2014 9:52:25 AM
Modified: 3/27/2014 10:25:47 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : KB2-33

RNA Area:	174.8	RNA Integrity Number (RIN):	7.9 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	107 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.4	Result Flagging Label:	RIN: 7.90

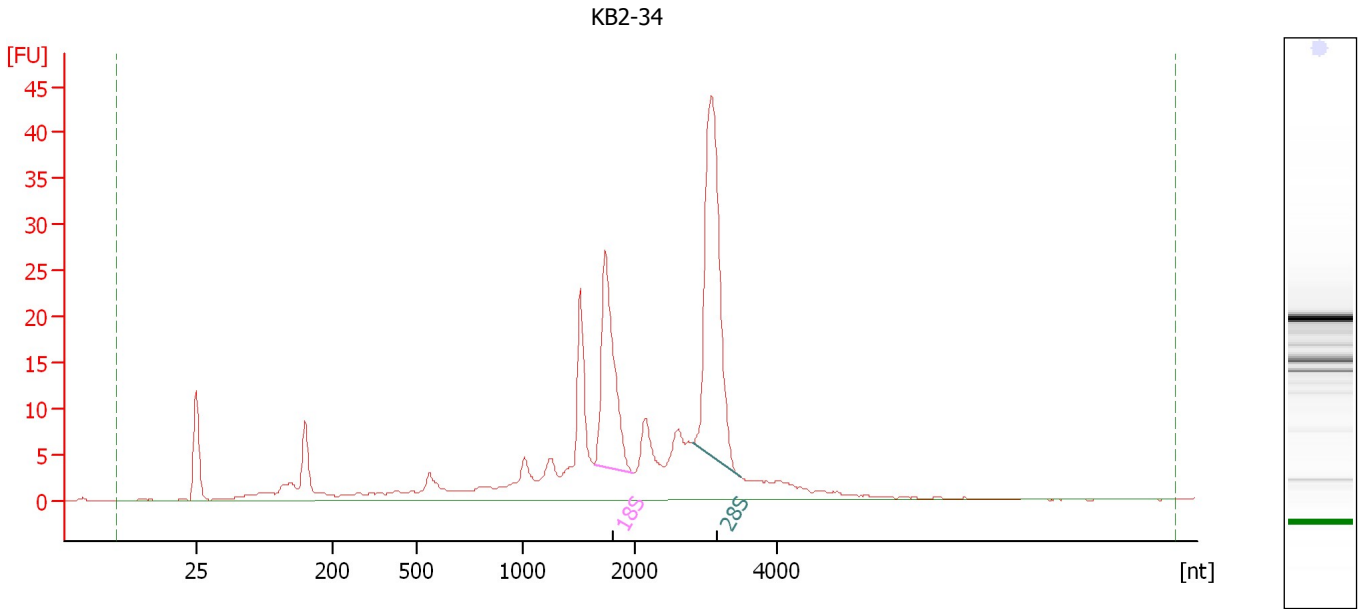
Fragment table for sample 1 : KB2-33

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,642	2,006	27.3	15.6
28S	2,769	3,471	38.5	22.1

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-27\2014-03-27_001.xad

Created: 3/27/2014 9:52:25 AM
 Modified: 3/27/2014 10:25:47 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : KB2-34

RNA Area:	286.6	RNA Integrity Number (RIN):	8.1 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	176 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.8	Result Flagging Label:	RIN: 8.10

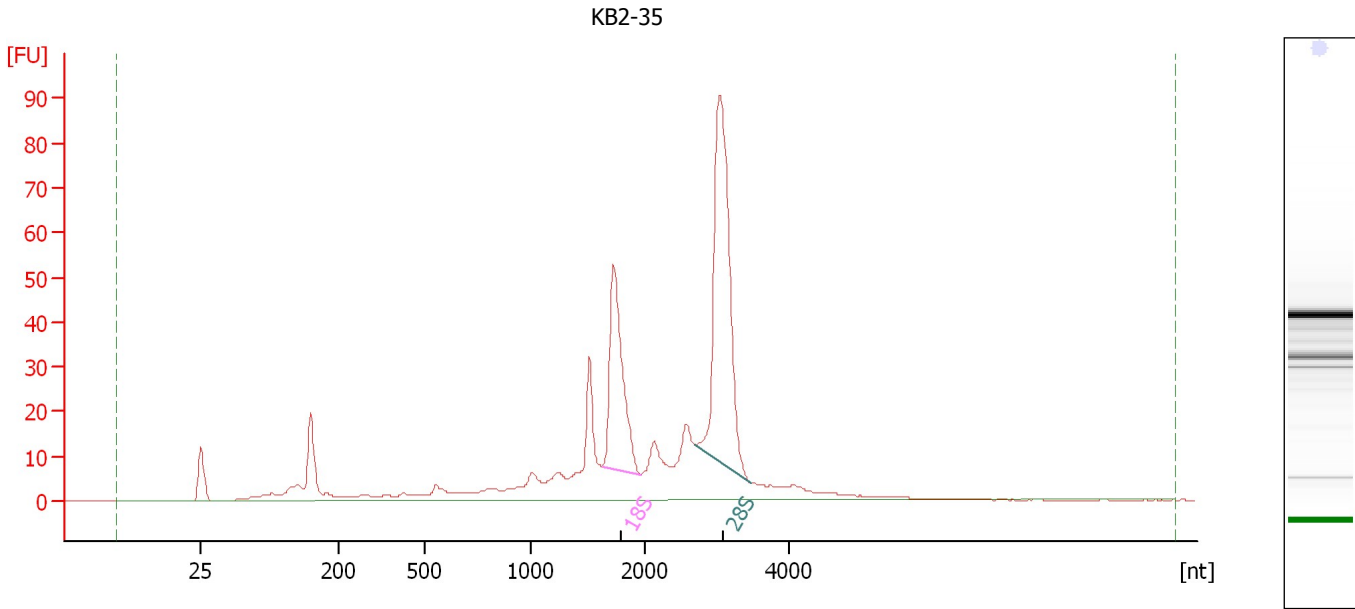
Fragment table for sample 2 : KB2-34

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,641	1,981	37.3	13.0
28S	2,815	3,493	65.6	22.9

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-27\2014-03-27_001.xad

Created: 3/27/2014 9:52:25 AM
Modified: 3/27/2014 10:25:47 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : KB2-35

RNA Area:	536.7	RNA Integrity Number (RIN):	8.4 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	329 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.1	Result Flagging Label:	RIN: 8.40

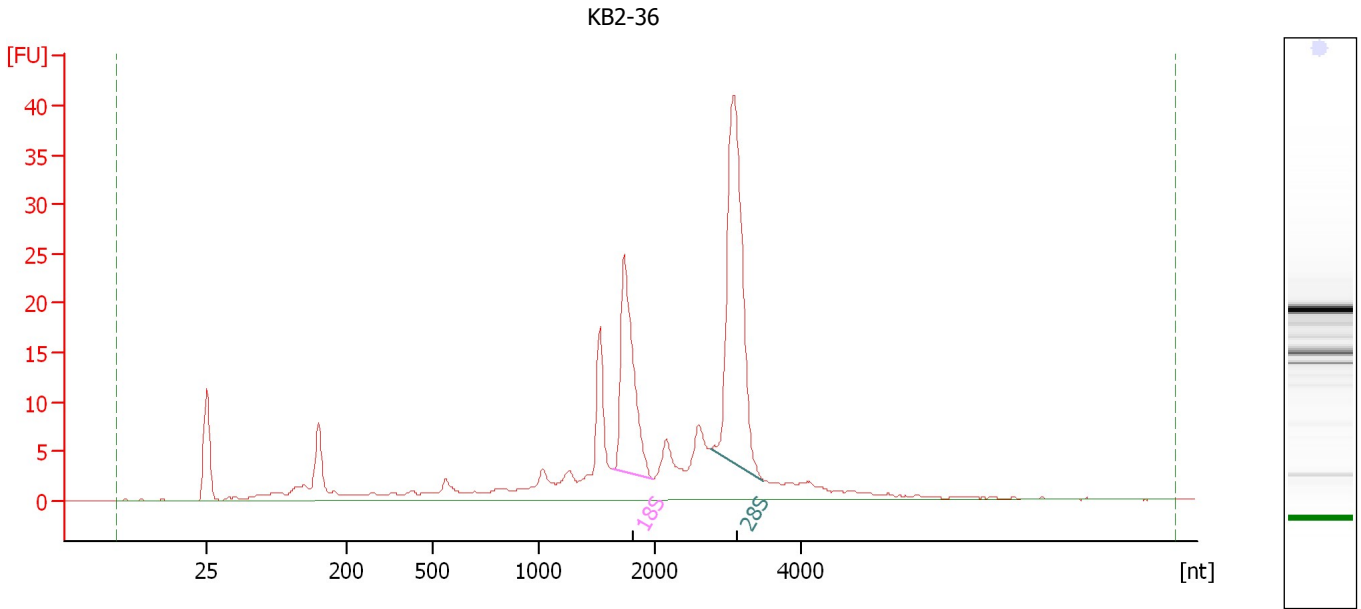
Fragment table for sample 3 : KB2-35

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,623	1,958	70.5	13.1
28S	2,695	3,471	144.6	26.9

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-27\2014-03-27_001.xad

Created: 3/27/2014 9:52:25 AM
 Modified: 3/27/2014 10:25:47 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : KB2-36

RNA Area:	248.0	RNA Integrity Number (RIN):	8.4 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	152 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.9	Result Flagging Label:	RIN: 8.40

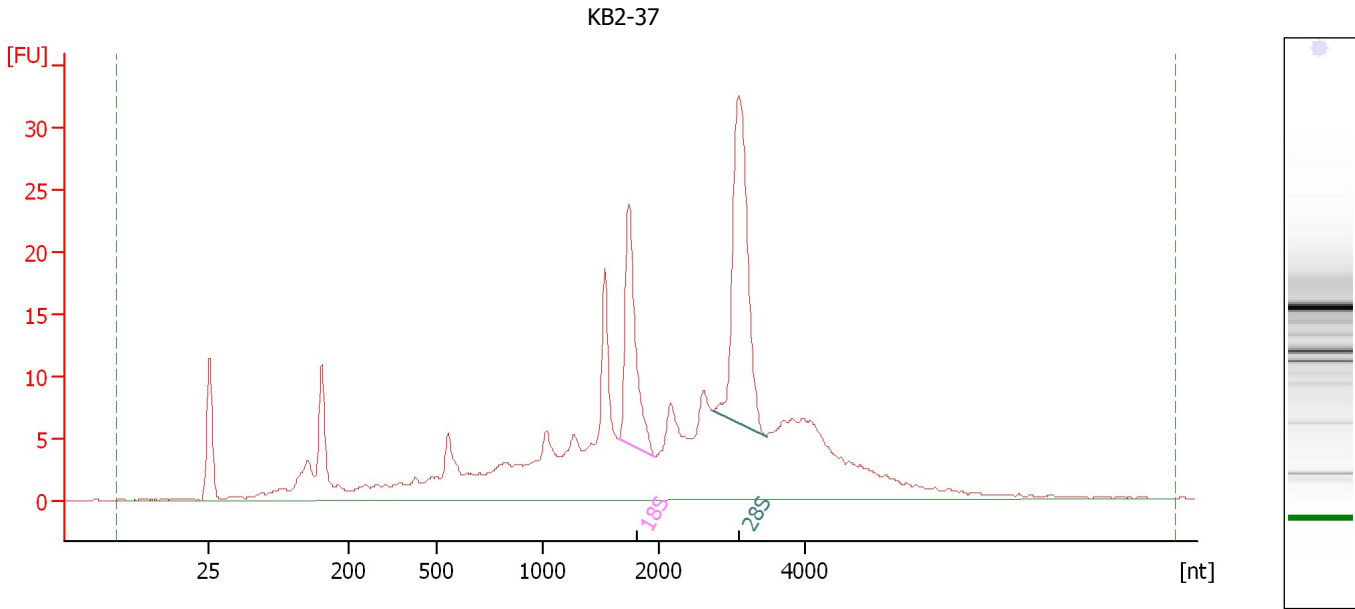
Fragment table for sample 4 : KB2-36

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,641	1,983	34.0	13.7
28S	2,770	3,494	63.2	25.5

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-27\2014-03-27_001.xad

Created: 3/27/2014 9:52:25 AM
Modified: 3/27/2014 10:25:47 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : KB2-37

RNA Area: 343.4 RNA Integrity Number (RIN): 6.8 (B.02.08)
RNA Concentration: 211 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.8 Result Flagging Label: RIN: 6.80

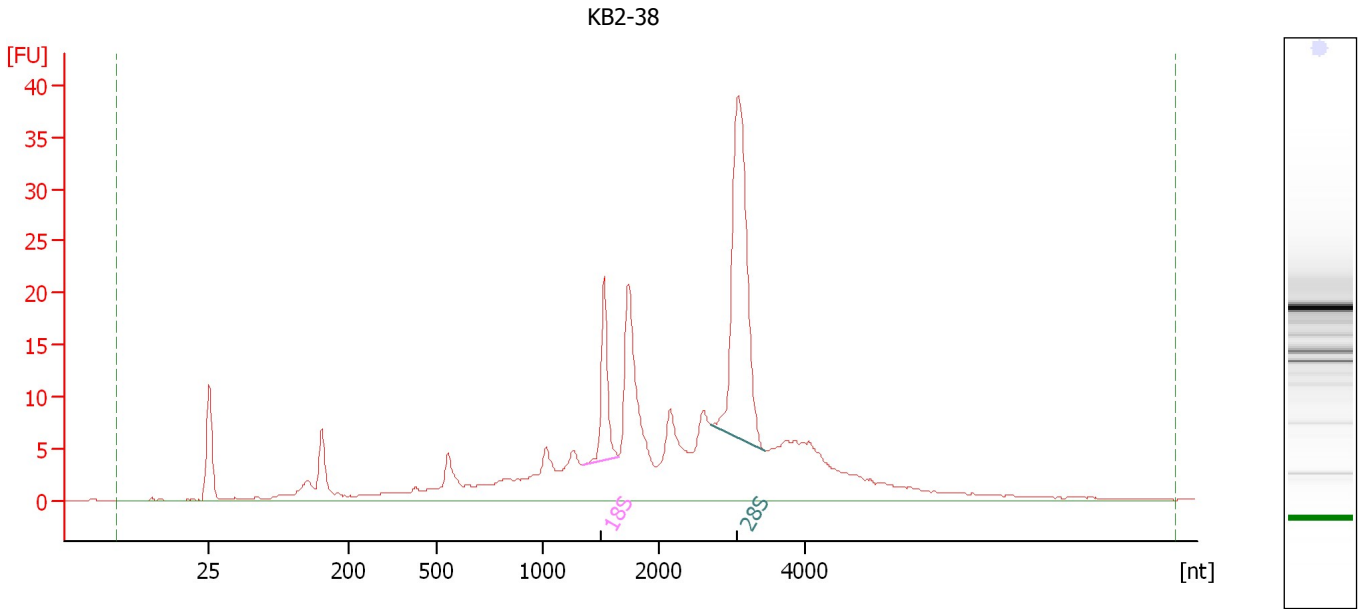
Fragment table for sample 5 : KB2-37

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,645	1,957	24.3	7.1
28S	2,741	3,476	44.0	12.8

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-27\2014-03-27_001.xad

Created: 3/27/2014 9:52:25 AM
Modified: 3/27/2014 10:25:47 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : KB2-38

RNA Area:	308.1	RNA Integrity Number (RIN):	7.2 (B.02.08)
RNA Concentration:	189 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	3.8	Result Flagging Label:	RIN: 7.20

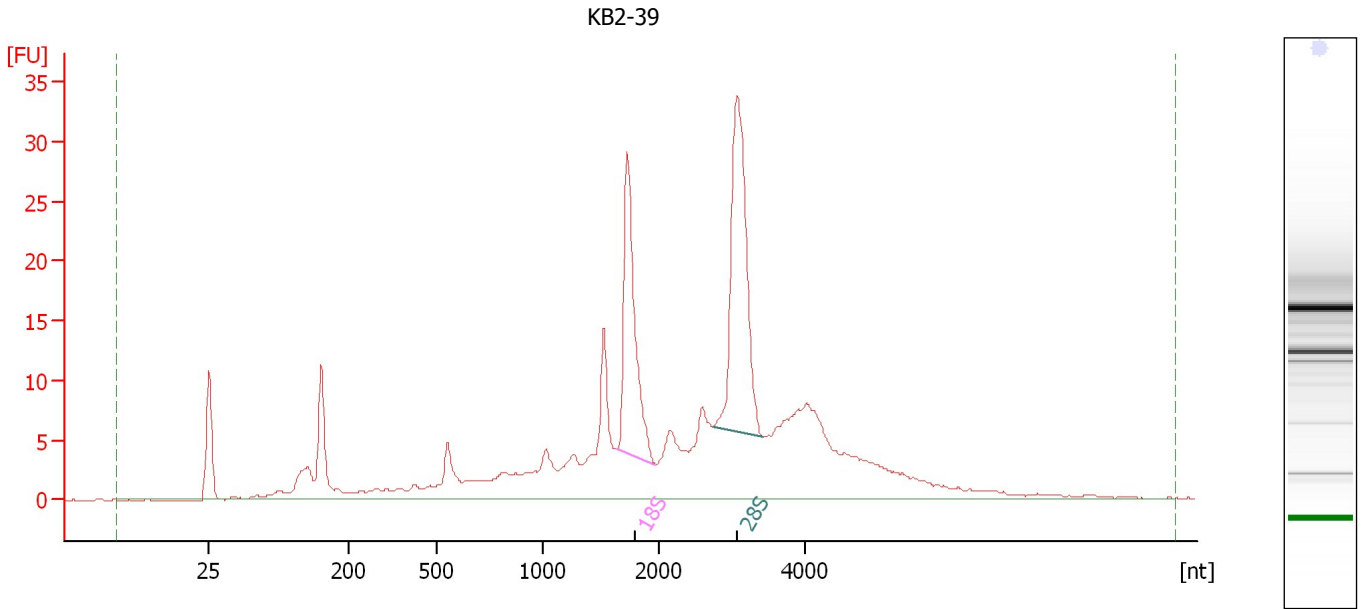
Fragment table for sample 6 : KB2-38

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,341	1,645	14.4	4.7
28S	2,711	3,461	54.9	17.8

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-27\2014-03-27_001.xad

Created: 3/27/2014 9:52:25 AM
Modified: 3/27/2014 10:25:47 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : KB2-39

RNA Area: 325.1 RNA Integrity Number (RIN): 7.3 (B.02.08)
RNA Concentration: 199 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.4 Result Flagging Label: RIN: 7.30

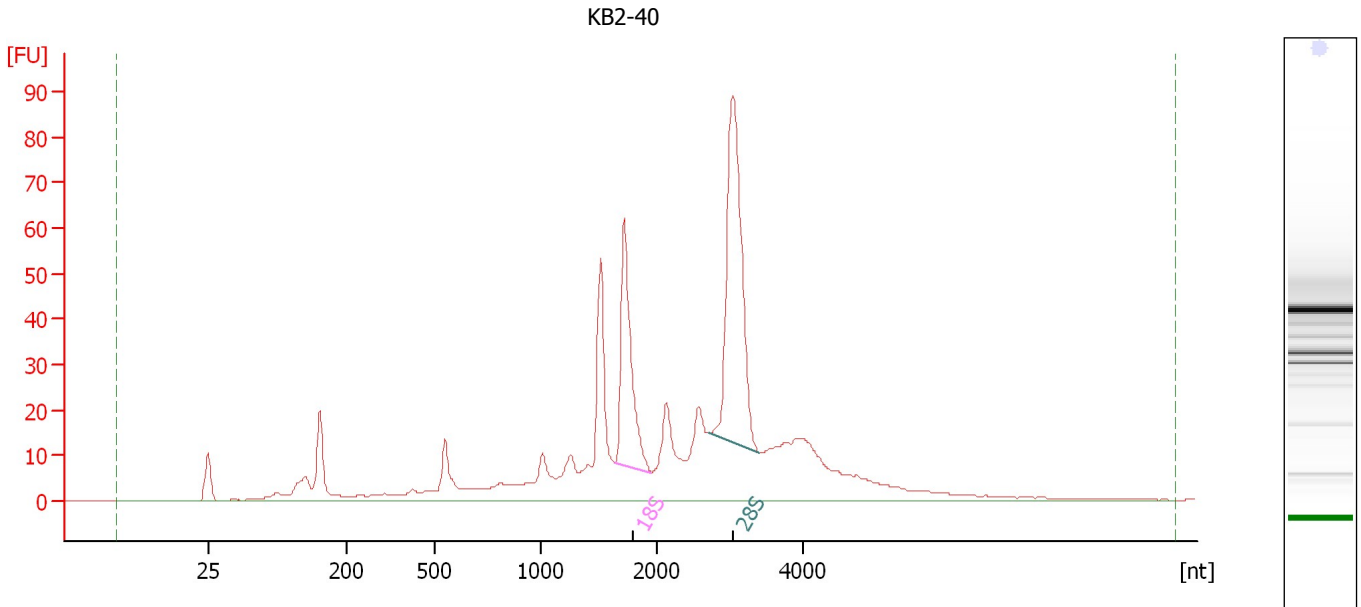
Fragment table for sample 7 : KB2-39

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,636	1,966	33.2	10.2
28S	2,726	3,432	48.0	14.8

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-27\2014-03-27_001.xad

Created: 3/27/2014 9:52:25 AM
Modified: 3/27/2014 10:25:47 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : KB2-40

RNA Area: 696.9 RNA Integrity Number (RIN): 7.6 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration: 427 ng/μl
rRNA Ratio [28s / 18s]: 1.9
Result Flagging Color:
Result Flagging Label: RIN: 7.60

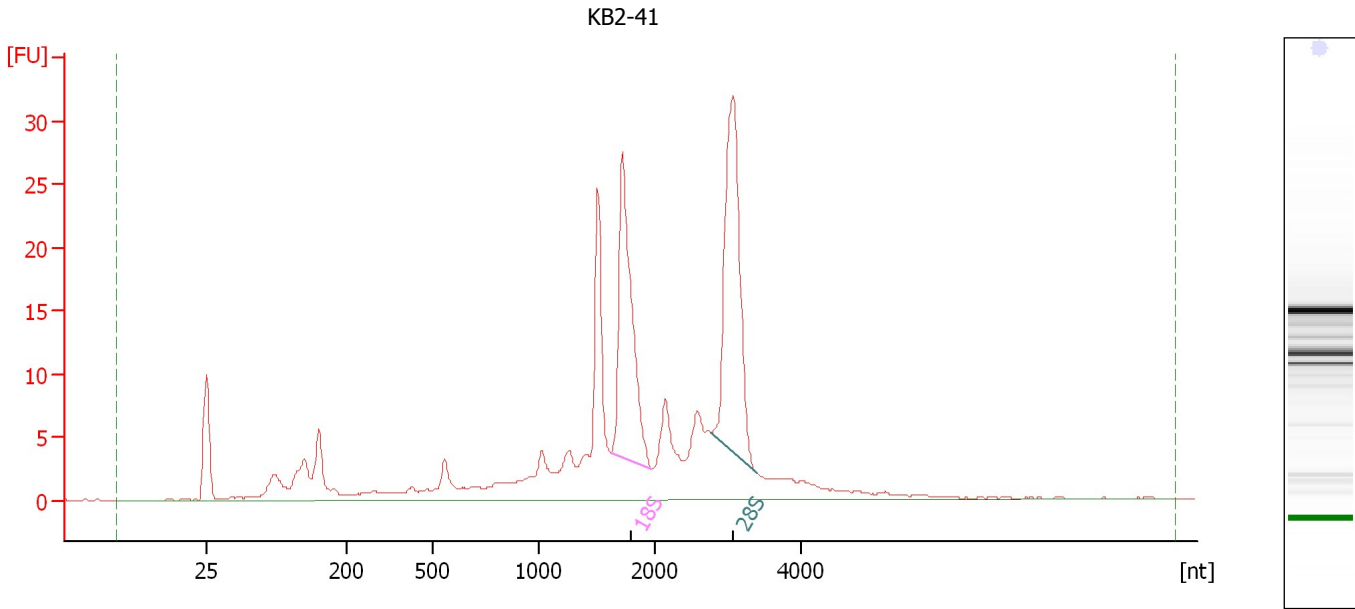
Fragment table for sample 8 : KB2-40

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,634	1,947	67.0	9.6
28S	2,711	3,404	127.8	18.3

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-27\2014-03-27_001.xad

Created: 3/27/2014 9:52:25 AM
 Modified: 3/27/2014 10:25:47 AM

Electropherogram Summary Continued ...



Overall Results for sample 9 : KB2-41

RNA Area:	255.6	RNA Integrity Number (RIN):	7.6 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	157 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.2	Result Flagging Label:	RIN: 7.60

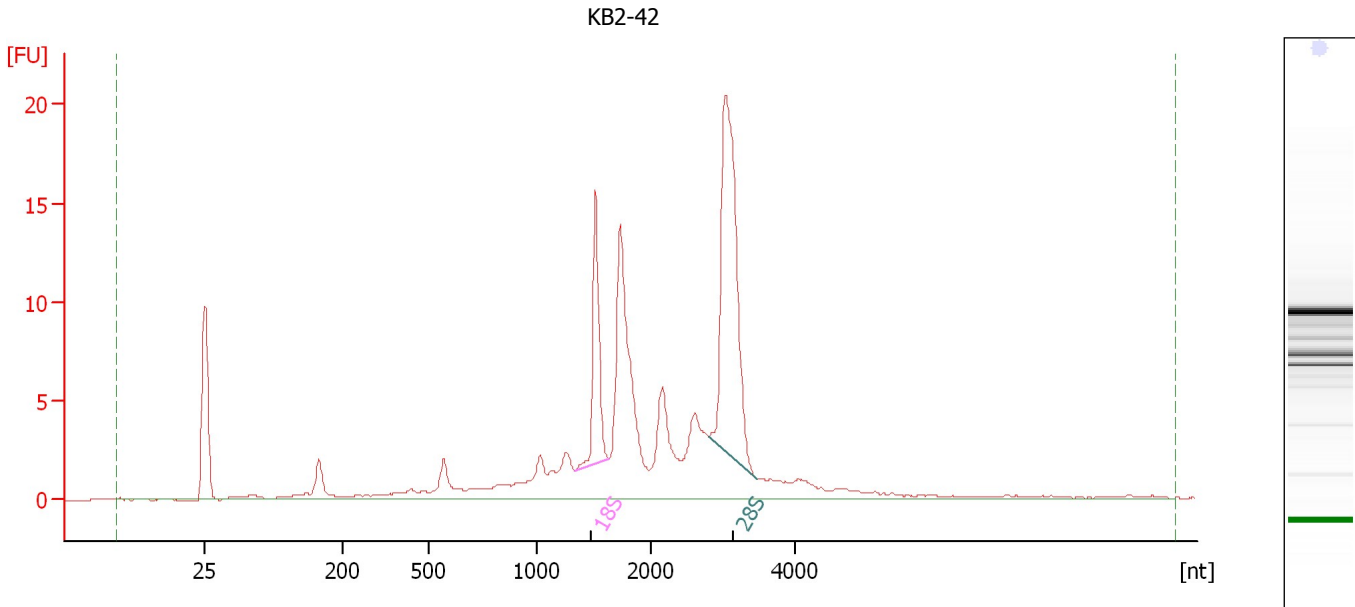
Fragment table for sample 9 : KB2-41

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,613	1,964	38.3	15.0
28S	2,770	3,390	47.1	18.4

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-27\2014-03-27_001.xad

Created: 3/27/2014 9:52:25 AM
Modified: 3/27/2014 10:25:47 AM

Electropherogram Summary Continued ...



Overall Results for sample 10 : KB2-42

RNA Area: 136.1 RNA Integrity Number (RIN): 8.1 (B.02.08)
RNA Concentration: 83 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 2.9 Result Flagging Label: RIN: 8.10

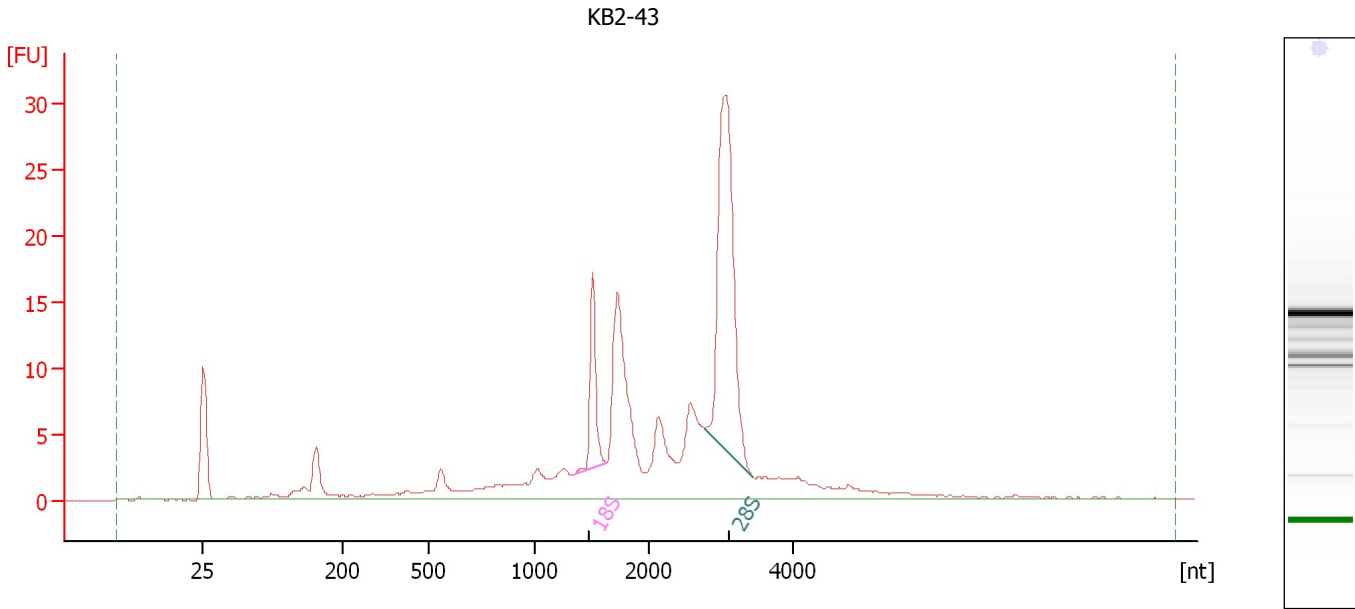
Fragment table for sample 10 : KB2-42

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,341	1,637	10.6	7.8
28S	2,799	3,452	30.8	22.6

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-27\2014-03-27_001.xad

Created: 3/27/2014 9:52:25 AM
Modified: 3/27/2014 10:25:47 AM

Electropherogram Summary Continued ...



Overall Results for sample 11 : KB2-43

RNA Area: 197.0 RNA Integrity Number (RIN): 8.1 (B.02.08)
RNA Concentration: 121 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 4.2 Result Flagging Label: RIN: 8.10

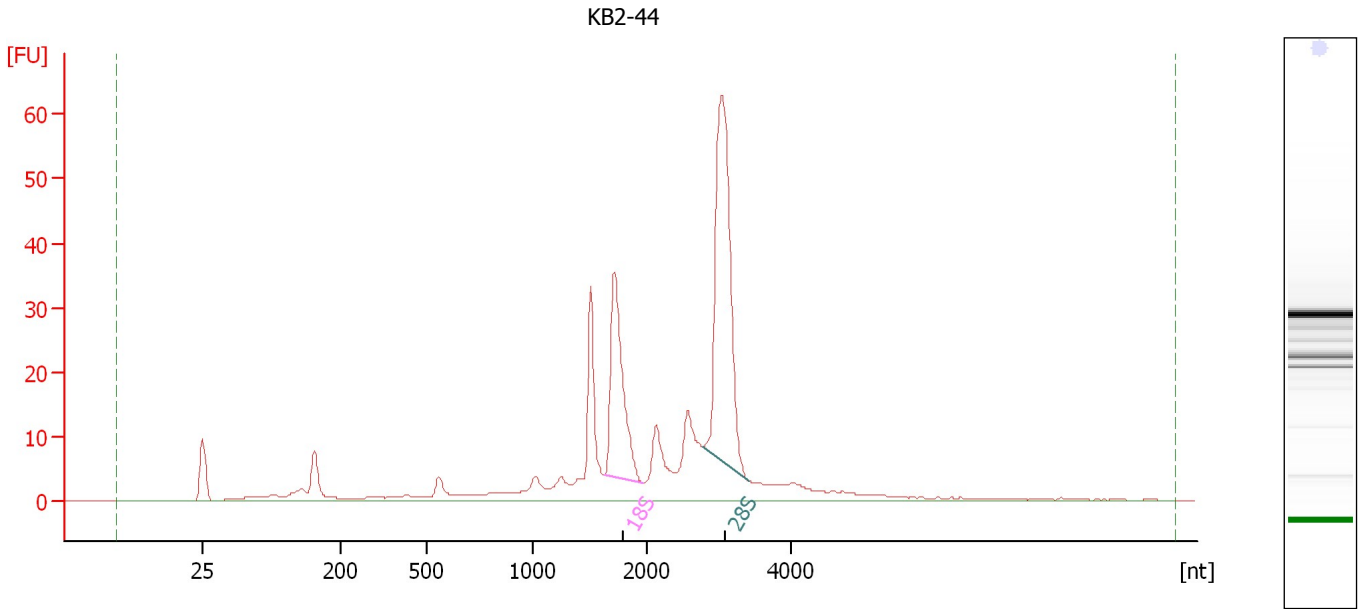
Fragment table for sample 11 : KB2-43

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,329	1,626	11.2	5.7
28S	2,770	3,453	46.6	23.7

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-27\2014-03-27_001.xad

Created: 3/27/2014 9:52:25 AM
Modified: 3/27/2014 10:25:47 AM

Electropherogram Summary Continued ...



Overall Results for sample 12 : KB2-44

RNA Area:	346.0	RNA Integrity Number (RIN):	8.4 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	212 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.0	Result Flagging Label:	RIN: 8.40

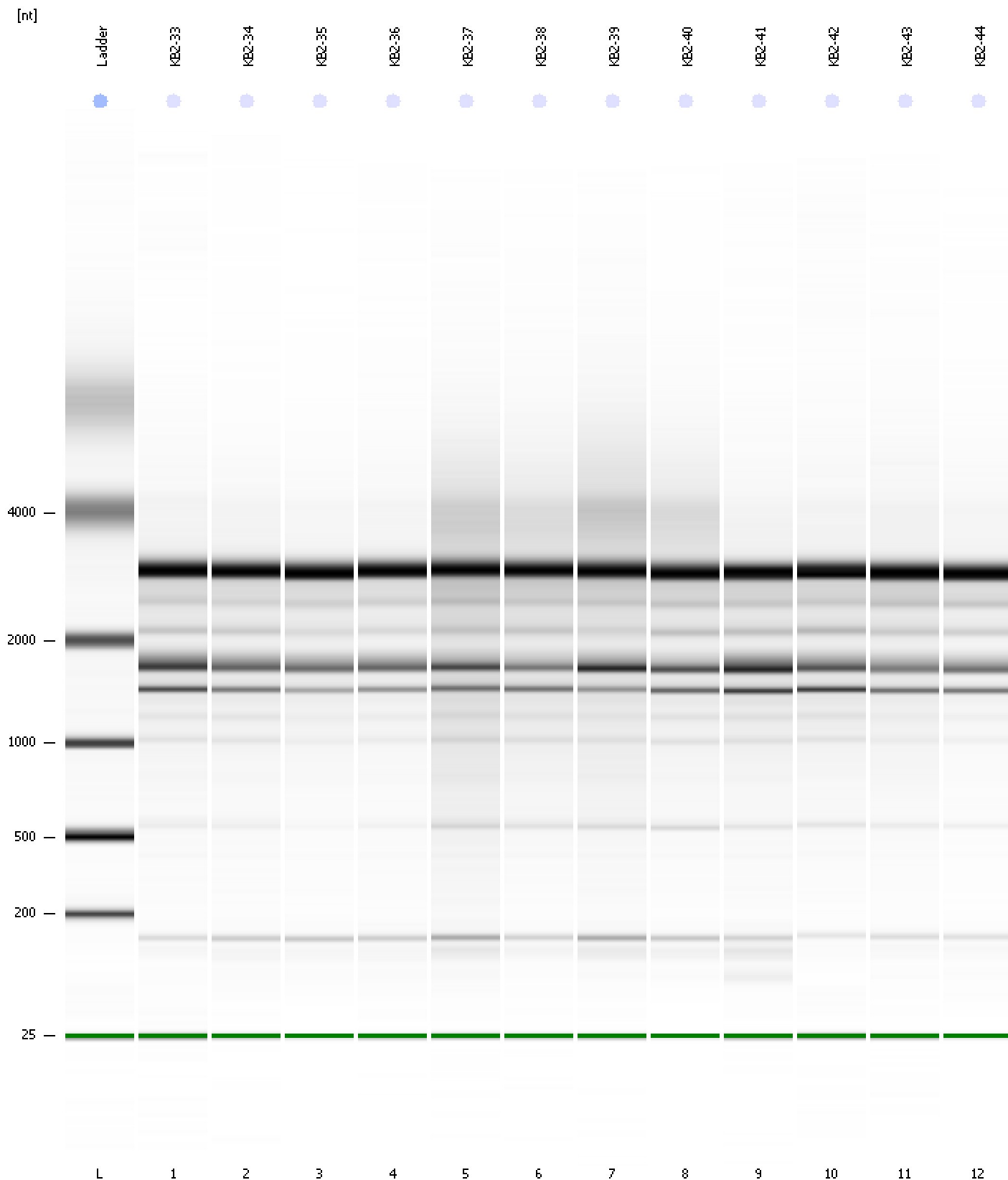
Fragment table for sample 12 : KB2-44

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,624	1,960	46.8	13.5
28S	2,770	3,410	95.3	27.5

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-27\2014-03-27_001.xad

Created: 3/27/2014 9:52:25 AM
Modified: 3/27/2014 10:25:47 AM

Gel Image

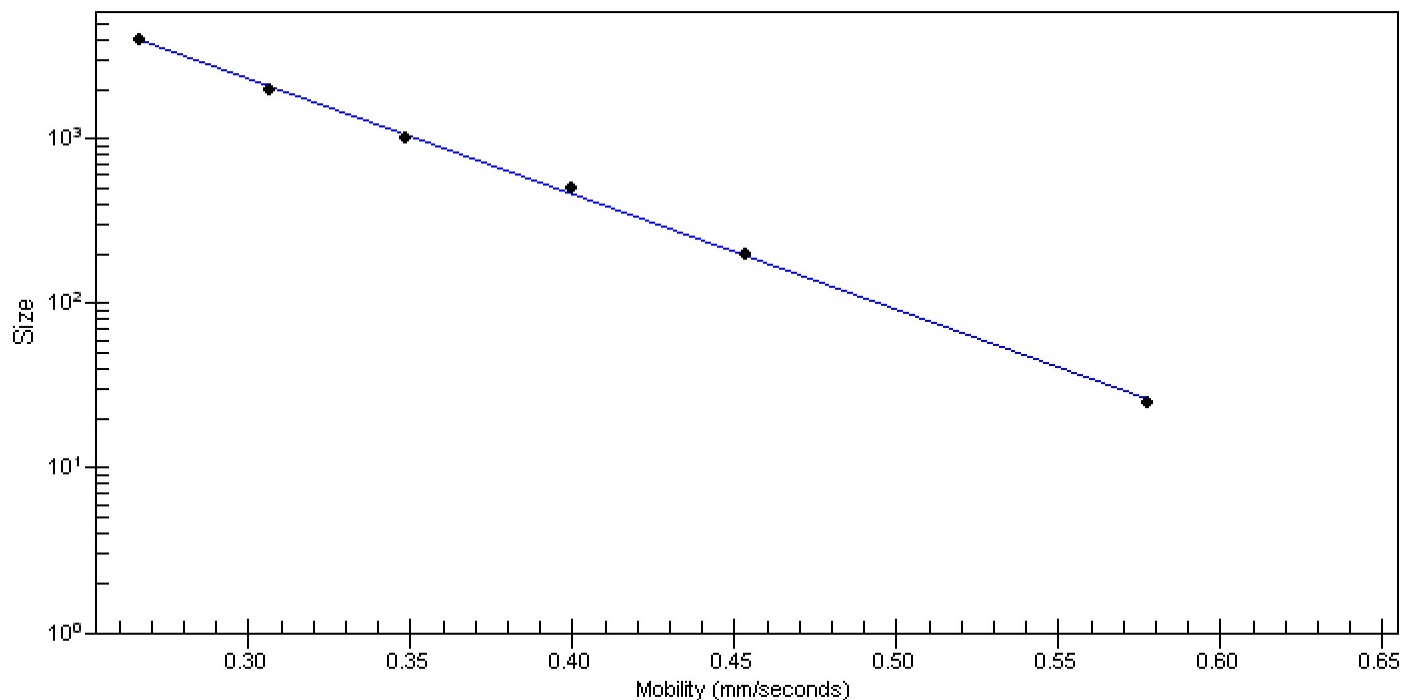


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-27\2014-03-27_001.xad

Created: 3/27/2014 9:52:25 AM
Modified: 3/27/2014 10:25:47 AM

Curves

Standard Curve



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-27\2014-03-27_001.xad

Created: 3/27/2014 9:52:25 AM
 Modified: 3/27/2014 10:25:47 AM

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		3/27/2014 10:16:16 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2014-03-27\2014-03-27_001.xad)		Instrument	Run		3/27/2014 9:52:30 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		3/27/2014 9:52:30 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		3/27/2014 9:52:30 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		3/27/2014 9:52:30 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		3/27/2014 9:52:30 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		3/27/2014 9:52:30 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		3/27/2014 9:52:30 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1