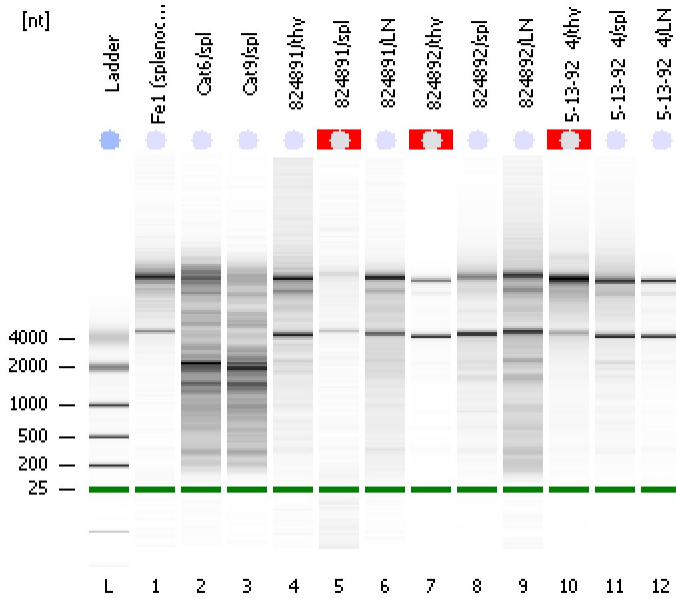


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-15\2014-10-15_002.xad

Created: 10/15/2014 3:30:03 PM
Modified: 10/15/2014 3:53:58 PM

Electrophoresis File Run Summary



Instrument Information:

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

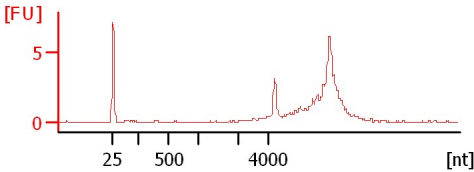
Assay Information:

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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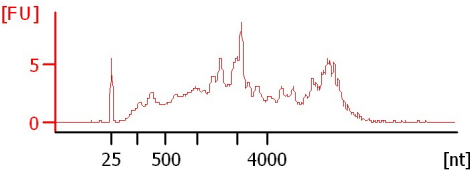
Chip Information:

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

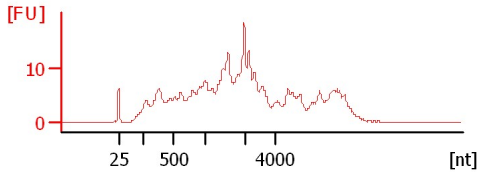
Fe1 (splenocyte)
Total RNA RIN: 9.30



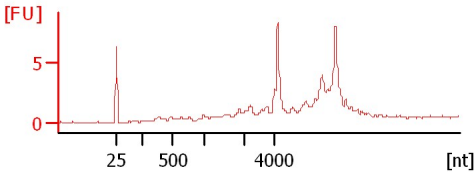
Cat6/spl
Total RNA RIN: 4



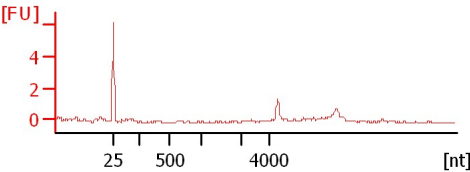
Cat9/spl
Total RNA RIN: 2.50



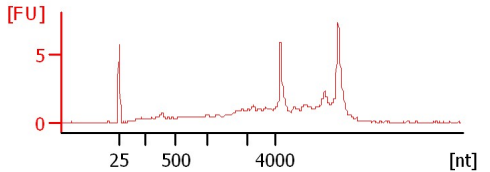
824891/thy
Total RNA RIN: 7.40



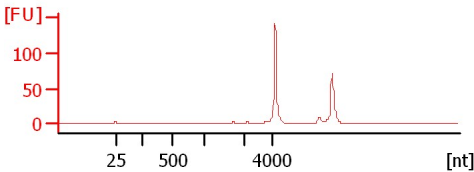
824891/spl
Total RNA RIN N/A



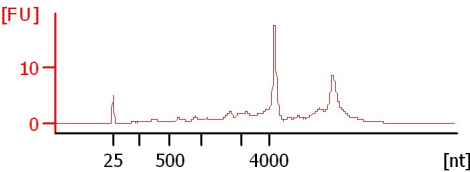
824891/LN
Total RNA RIN: 6.80



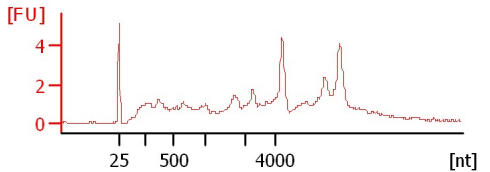
824892/thy
Total RNA RIN N/A



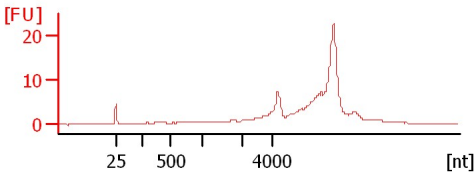
824892/spl
Total RNA RIN: 7.10



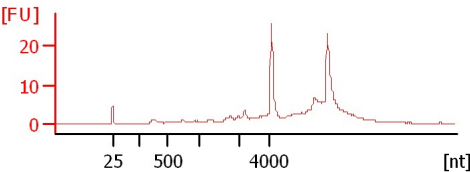
824892/LN
Total RNA RIN: 6.20



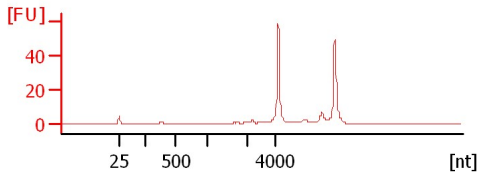
5-13-92_4/thy
Total RNA RIN N/A



5-13-92_4/spl
Total RNA RIN: 7.30



5-13-92_4/LN
Total RNA RIN: 8.80



Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-15\2014-10-15_002.xad

Created: 10/15/2014 3:30:03 PM
Modified: 10/15/2014 3:53:58 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
Fe1 (splenocyte)	Total RNA	✓	RIN: 9.30	
Cat6/spl	Total RNA	✓	RIN:4	
Cat9/spl	Total RNA	✓	RIN: 2.50	
824891/thy	Total RNA	✓	RIN: 7.40	
824891/spl	Total RNA	✓	RIN N/A	
824891/LN	Total RNA	✓	RIN: 6.80	
824892/thy	Total RNA	✓	RIN N/A	
824892/spl	Total RNA	✓	RIN: 7.10	
824892/LN	Total RNA	✓	RIN: 6.20	
5-13-92_4/thy	Total RNA	✓	RIN N/A	
5-13-92_4/spl	Total RNA	✓	RIN: 7.30	
5-13-92_4/LN	Total RNA	✓	RIN: 8.80	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-15\2014-10-15_002.xad

Created: 10/15/2014 3:30:03 PM
Modified: 10/15/2014 3:53:58 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

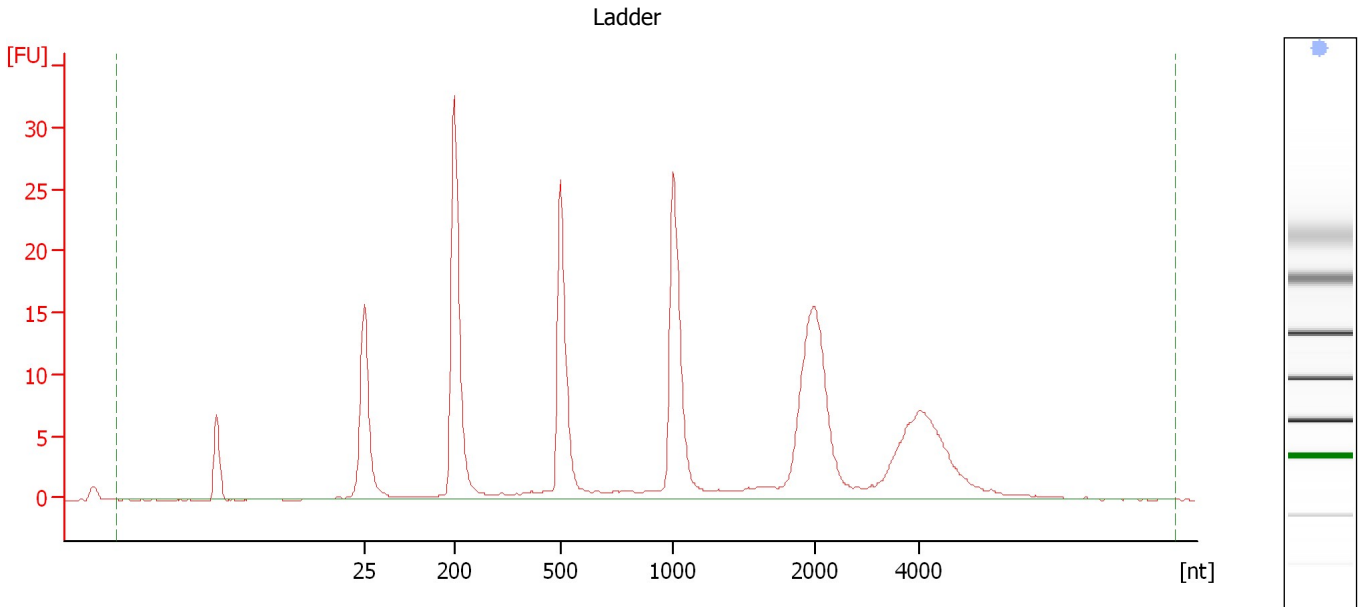
Ladder

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\2014-10-15\2014-10-15_002.xad

Created: 10/15/2014 3:30:03 PM
Modified: 10/15/2014 3:53:58 PM

Electropherogram Summary



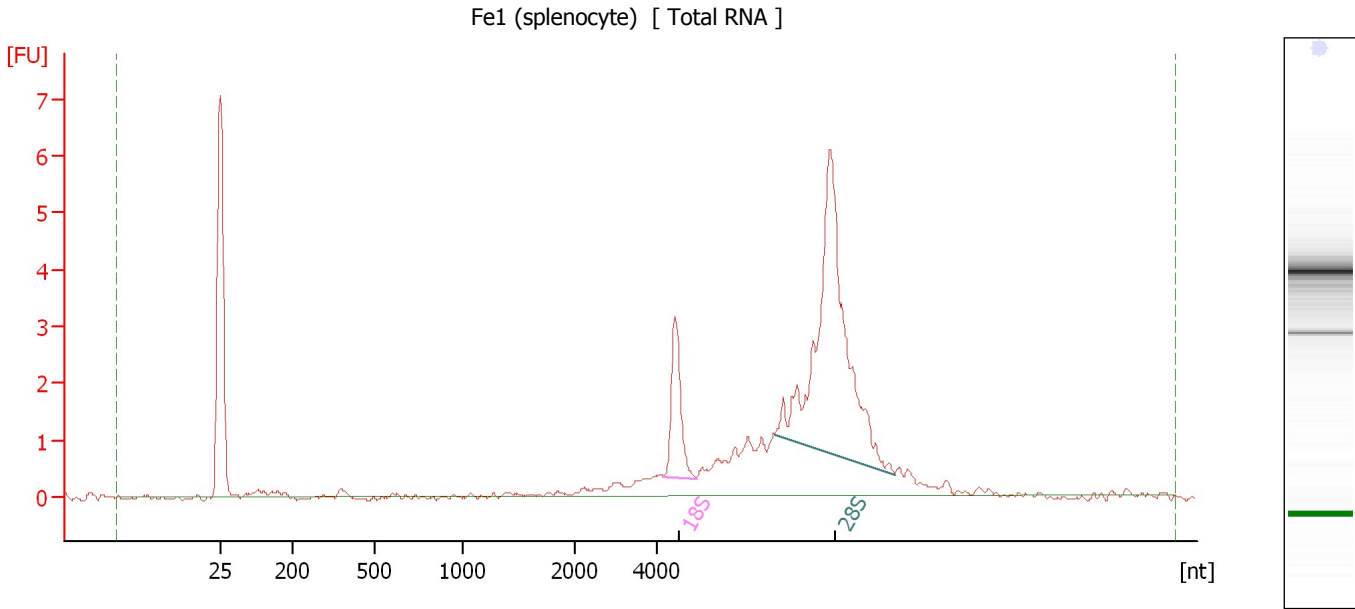
Overall Results for Ladder

RNA Area:	210.4	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\2014-10-15\2014-10-15_002.xad

Created: 10/15/2014 3:30:03 PM
Modified: 10/15/2014 3:53:58 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : Fe1 (splenocyte)

RNA Area: 38.0 RNA Integrity Number (RIN): 9.3 (B.02.08)
RNA Concentration: 27 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 5.0 Result Flagging Label: RIN: 9.30

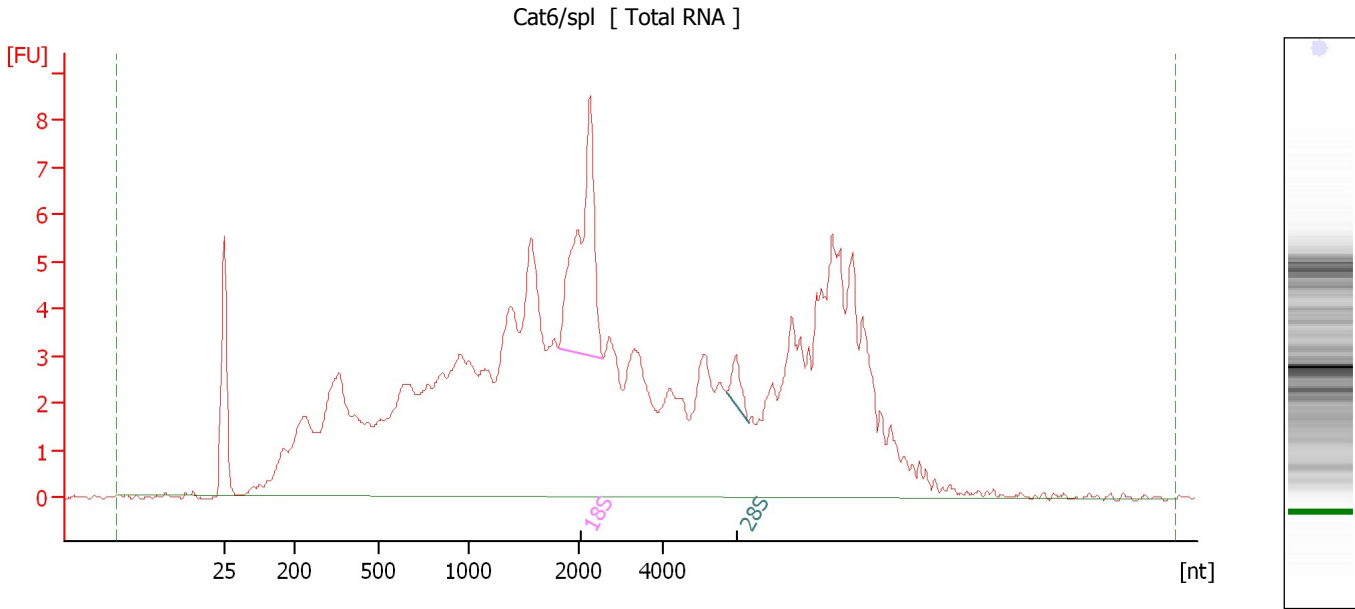
Fragment table for sample 1 : Fe1 (splenocyte)

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	4,161	4,968	3.0	7.9
28S	6,867	9,808	15.1	39.6

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-15\2014-10-15_002.xad

Created: 10/15/2014 3:30:03 PM
Modified: 10/15/2014 3:53:58 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : Cat6/spl

RNA Area:	199.6	RNA Integrity Number (RIN):	4 (B.02.08)
RNA Concentration:	142 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.1	Result Flagging Label:	RIN:4

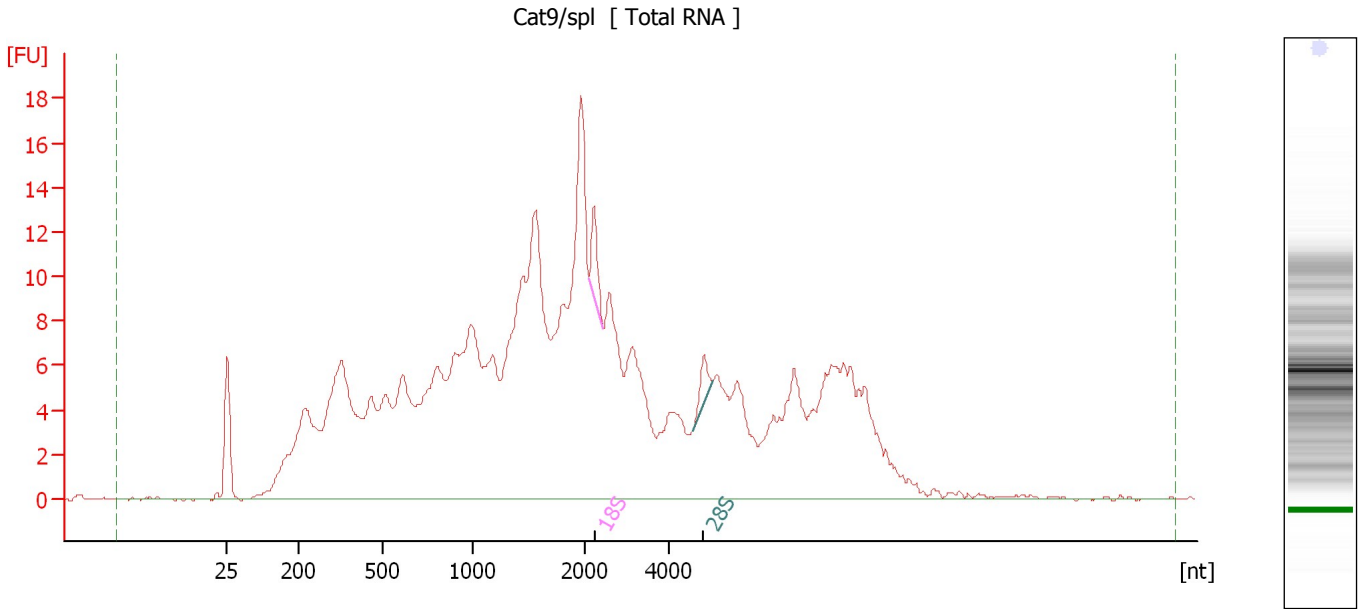
Fragment table for sample 2 : Cat6/spl

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,808	2,569	11.3	5.7
28S	5,543	6,087	1.1	0.6

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-15\2014-10-15_002.xad

Created: 10/15/2014 3:30:03 PM
Modified: 10/15/2014 3:53:58 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : Cat9/spl

RNA Area: 399.1 RNA Integrity Number (RIN): 2.5 (B.02.08)
RNA Concentration: 285 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.6 Result Flagging Label: RIN: 2.50

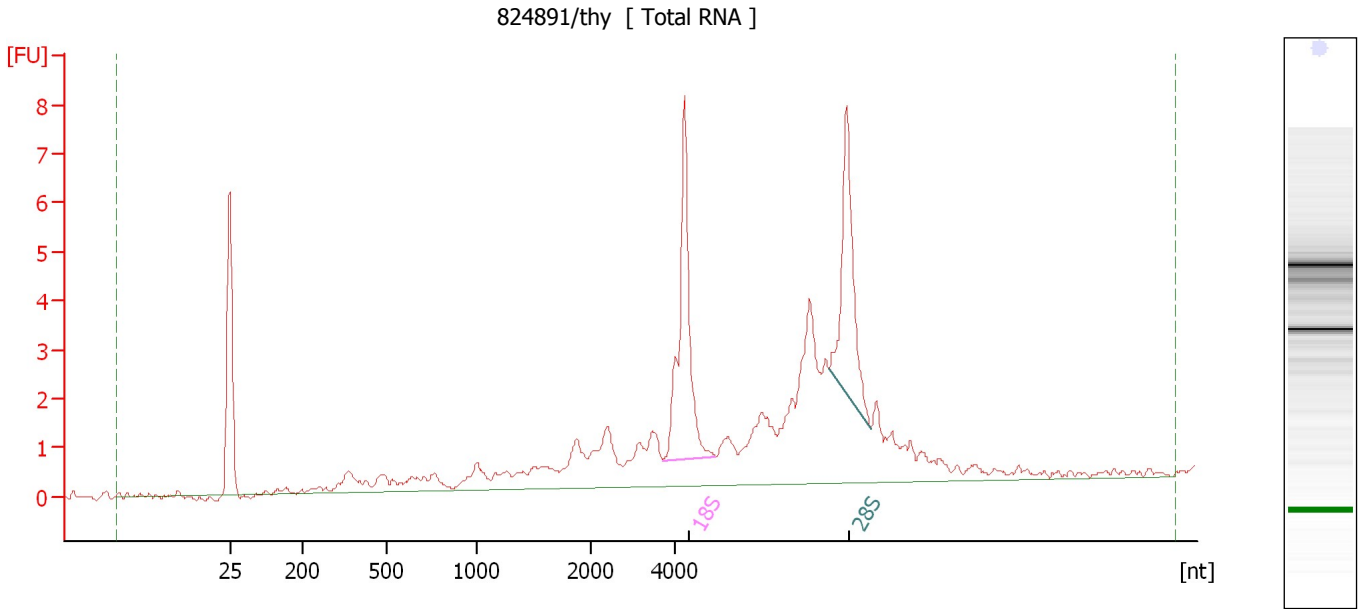
Fragment table for sample 3 : Cat9/spl

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	2,102	2,436	3.1	0.8
28S	4,595	5,058	1.8	0.4

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-15\2014-10-15_002.xad

Created: 10/15/2014 3:30:03 PM
 Modified: 10/15/2014 3:53:58 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : 824891/thy

RNA Area:	63.8	RNA Integrity Number (RIN):	7.4 (B.02.08)
RNA Concentration:	45 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.8	Result Flagging Label:	RIN: 7.40

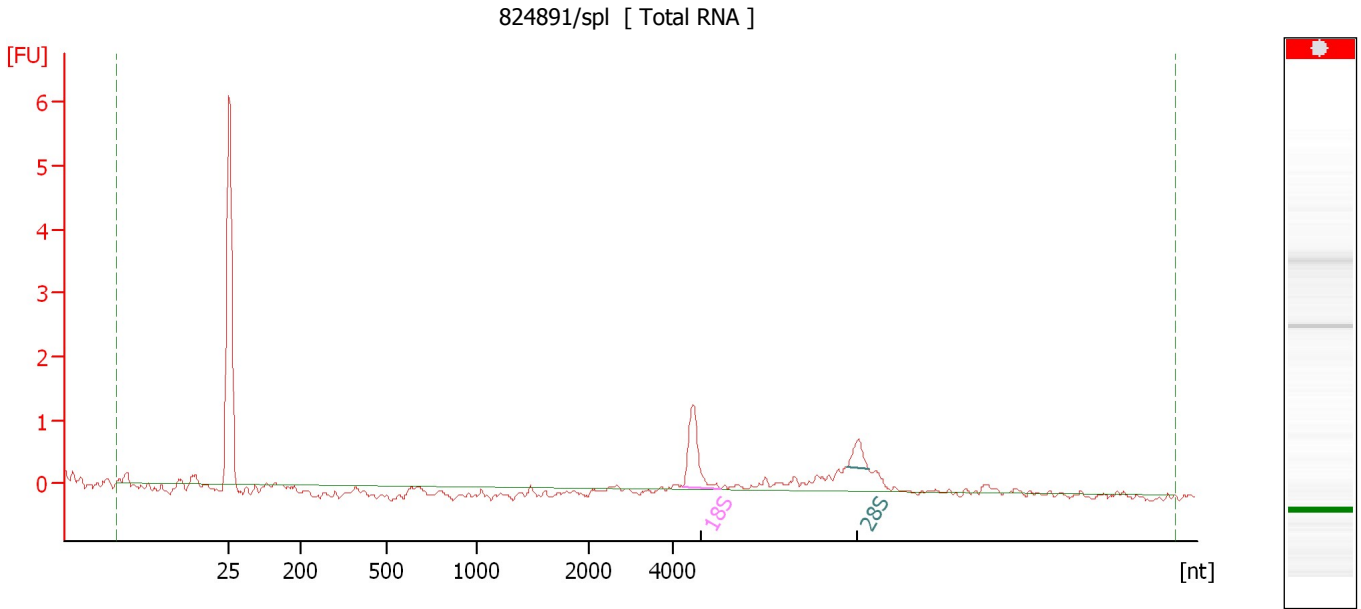
Fragment table for sample 4 : 824891/thy

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,710	4,988	8.6	13.5
28S	7,722	8,693	6.6	10.4

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-15\2014-10-15_002.xad

Created: 10/15/2014 3:30:03 PM
Modified: 10/15/2014 3:53:58 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : 824891/spl

RNA Area: 6.0 RNA Integrity Number (RIN): N/A (B.02.08)
RNA Concentration: 4 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.3 Result Flagging Label: RIN N/A

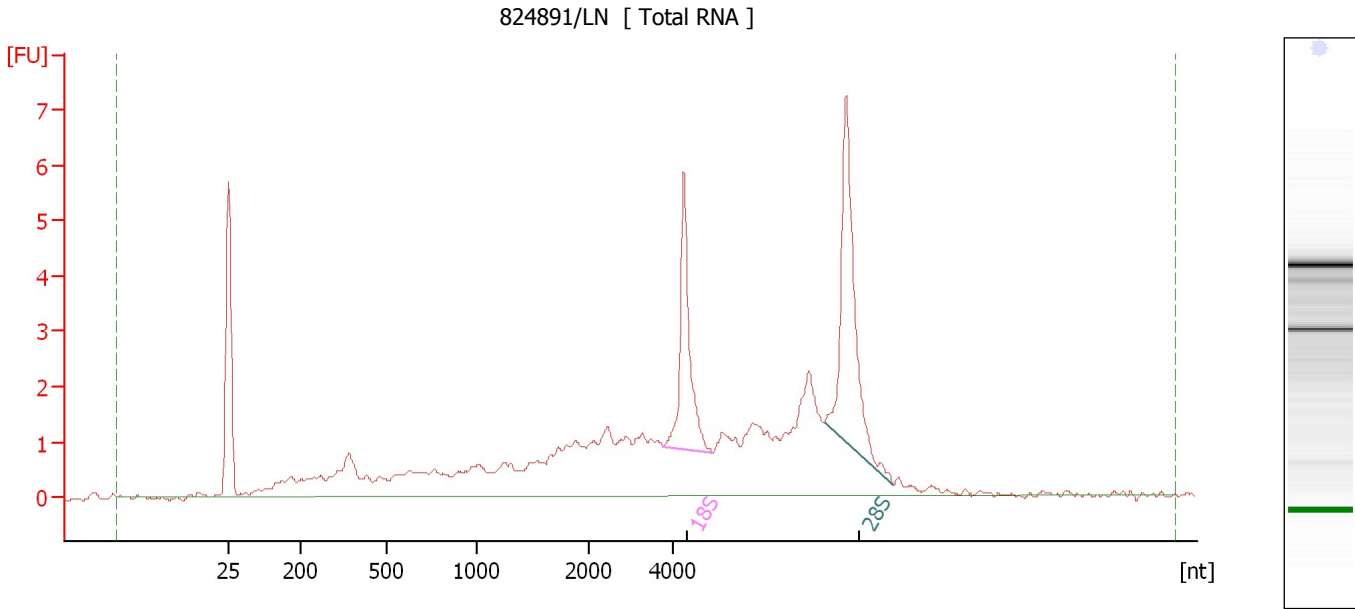
Fragment table for sample 5 : 824891/spl

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	4,243	5,165	1.5	24.4
28S	8,186	8,698	0.4	7.1

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-15\2014-10-15_002.xad

Created: 10/15/2014 3:30:03 PM
 Modified: 10/15/2014 3:53:58 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : 824891/LN

RNA Area:	64.7	RNA Integrity Number (RIN):	6.8 (B.02.08)
RNA Concentration:	46 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.5	Result Flagging Label:	RIN: 6.80

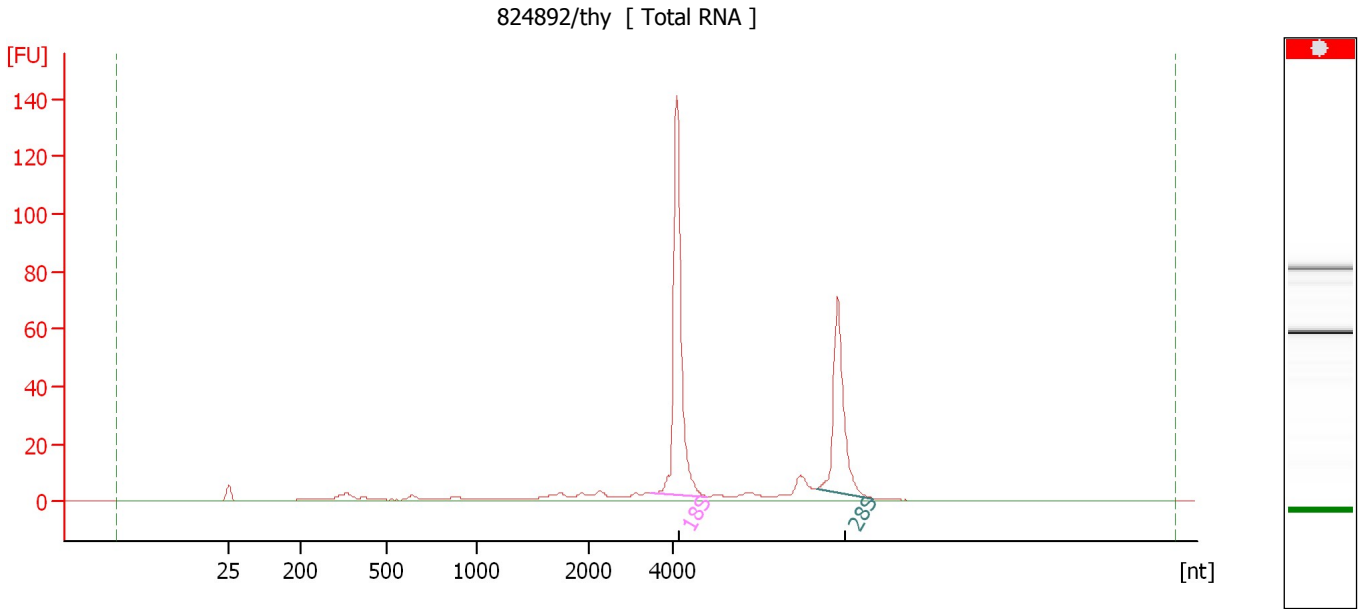
Fragment table for sample 6 : 824891/LN

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,782	4,960	5.5	8.5
28S	7,648	9,312	8.3	12.8

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-15\2014-10-15_002.xad

Created: 10/15/2014 3:30:03 PM
Modified: 10/15/2014 3:53:58 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : 824892/thy

RNA Area:	303.8	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	217 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.6	Result Flagging Label:	RIN N/A

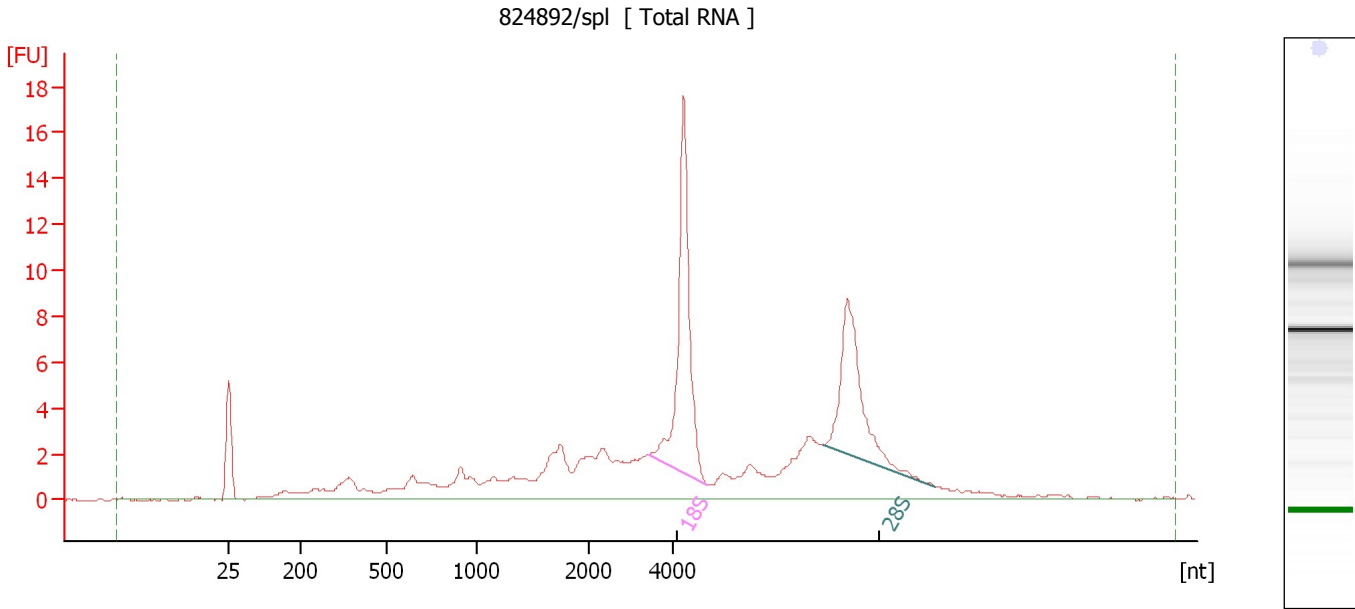
Fragment table for sample 7 : 824892/thy

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,500	4,857	119.0	39.2
28S	7,469	8,826	68.5	22.5

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-15\2014-10-15_002.xad

Created: 10/15/2014 3:30:03 PM
 Modified: 10/15/2014 3:53:58 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : 824892/spl

RNA Area:	118.2	RNA Integrity Number (RIN):	7.1 (B.02.08)
RNA Concentration:	84 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.7	Result Flagging Label:	RIN: 7.10

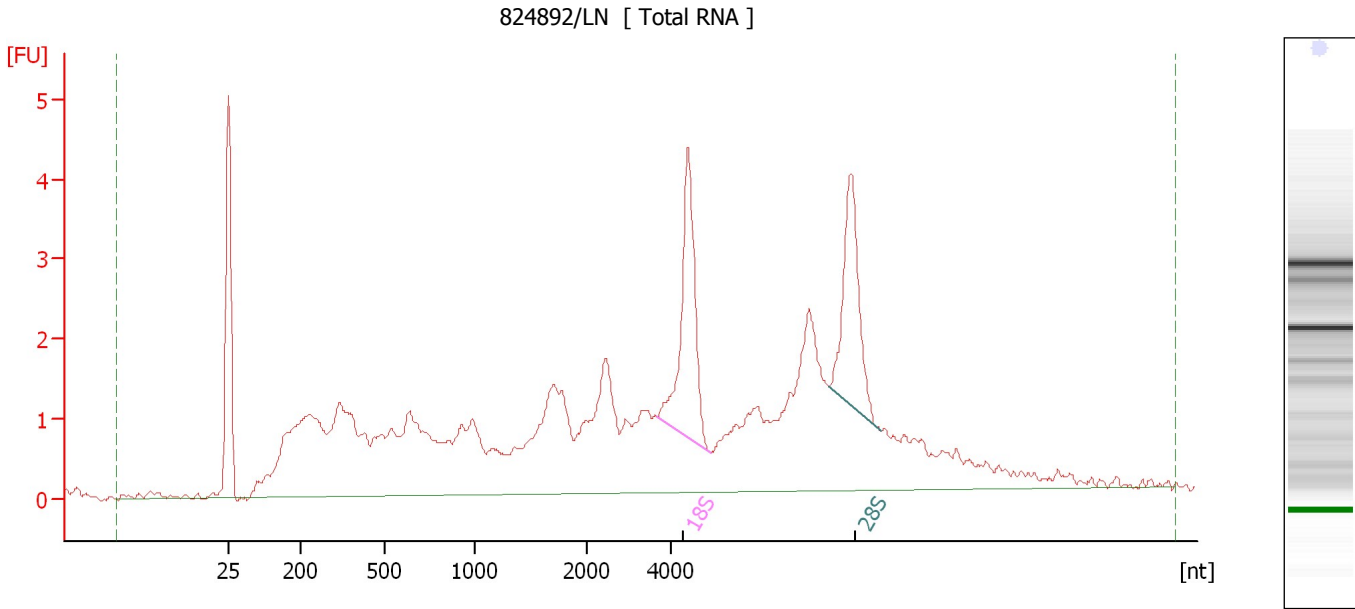
Fragment table for sample 8 : 824892/spl

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,449	4,857	21.1	17.8
28S	7,623	10,311	14.1	11.9

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-15\2014-10-15_002.xad

Created: 10/15/2014 3:30:03 PM
Modified: 10/15/2014 3:53:58 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : 824892/LN

RNA Area:	81.7	RNA Integrity Number (RIN):	6.2 (B.02.08)
RNA Concentration:	58 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.8	Result Flagging Label:	RIN: 6.20

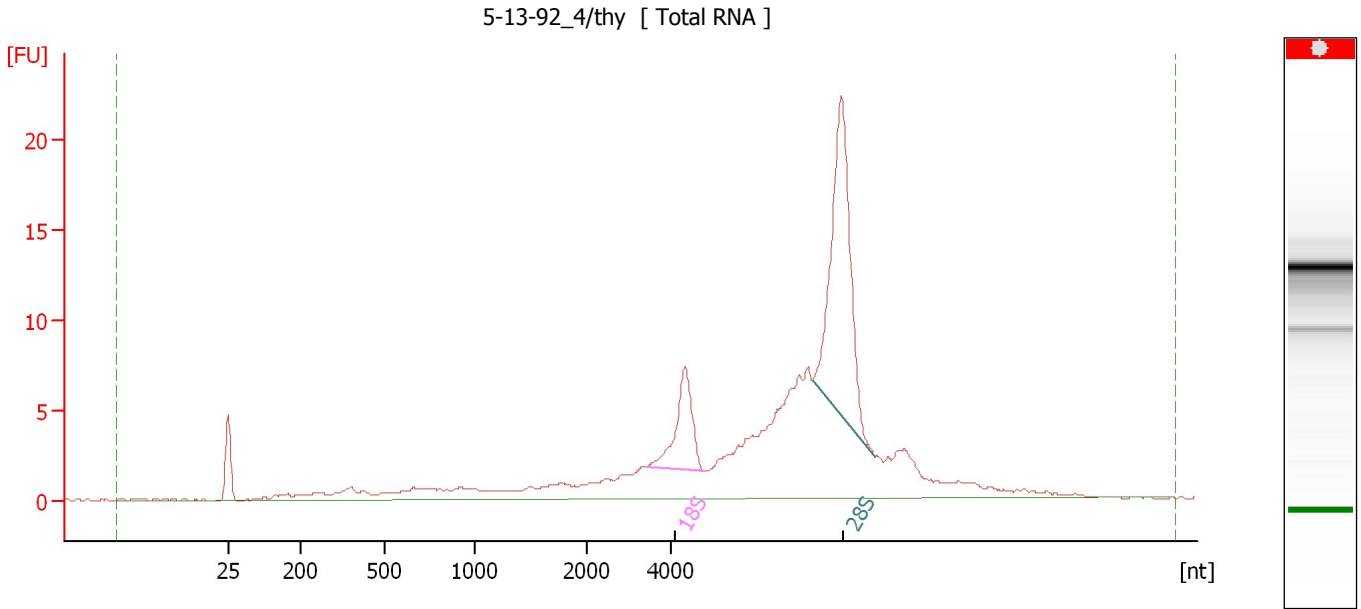
Fragment table for sample 9 : 824892/LN

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,700	4,958	5.7	7.0
28S	7,831	9,062	4.5	5.5

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-15\2014-10-15_002.xad

Created: 10/15/2014 3:30:03 PM
Modified: 10/15/2014 3:53:58 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : 5-13-92 4/thy

RNA Area: 166.7 RNA Integrity Number (RIN): N/A (B.02.08)
RNA Concentration: 119 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 3.2 Result Flagging Label: RIN N/A

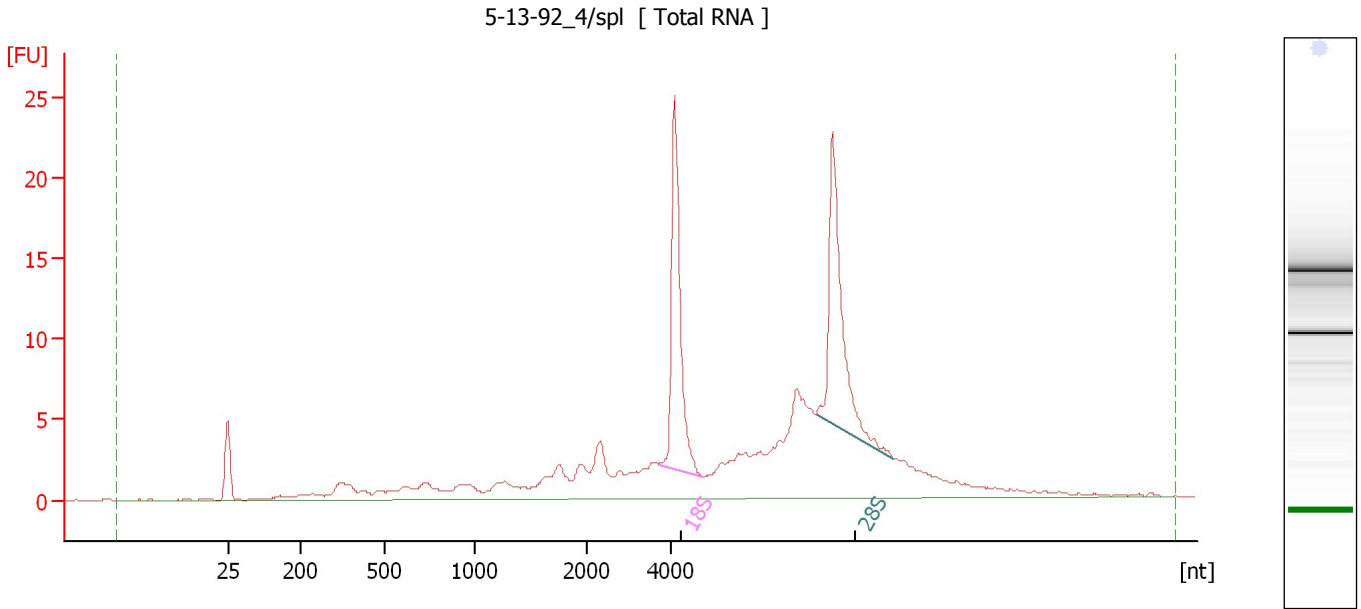
Fragment table for sample 10 : 5-13-92 4/thy

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,418	4,855	10.8	6.5
28S	7,420	8,908	34.0	20.4

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-15\2014-10-15_002.xad

Created: 10/15/2014 3:30:03 PM
Modified: 10/15/2014 3:53:58 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : 5-13-92 4/spl

RNA Area: 172.0 RNA Integrity Number (RIN): 7.3 (B.02.08)
RNA Concentration: 123 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.0 Result Flagging Label: RIN: 7.30

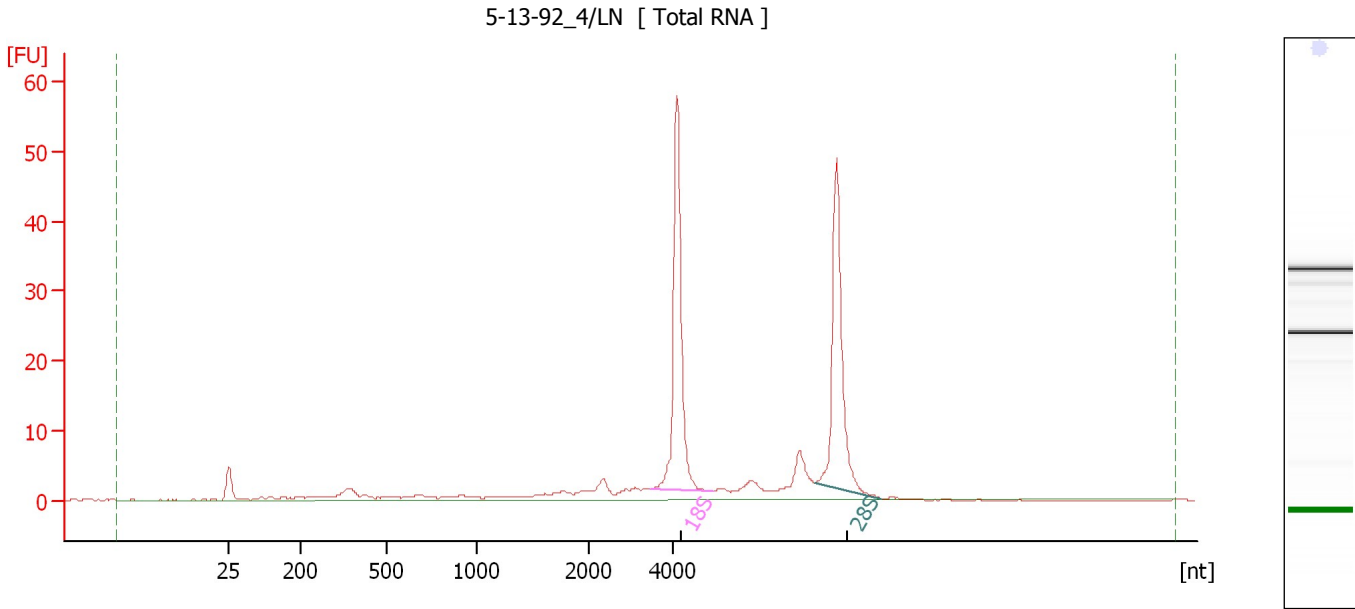
Fragment table for sample 11 : 5-13-92 4/spl

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,726	4,804	22.5	13.1
28S	7,523	9,345	22.5	13.1

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-15\2014-10-15_002.xad

Created: 10/15/2014 3:30:03 PM
 Modified: 10/15/2014 3:53:58 PM

Electropherogram Summary Continued ...



Overall Results for sample 12 : 5-13-92 4/LN

RNA Area:	168.5	RNA Integrity Number (RIN):	8.8 (B.02.08)
RNA Concentration:	120 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.9	Result Flagging Label:	RIN: 8.80

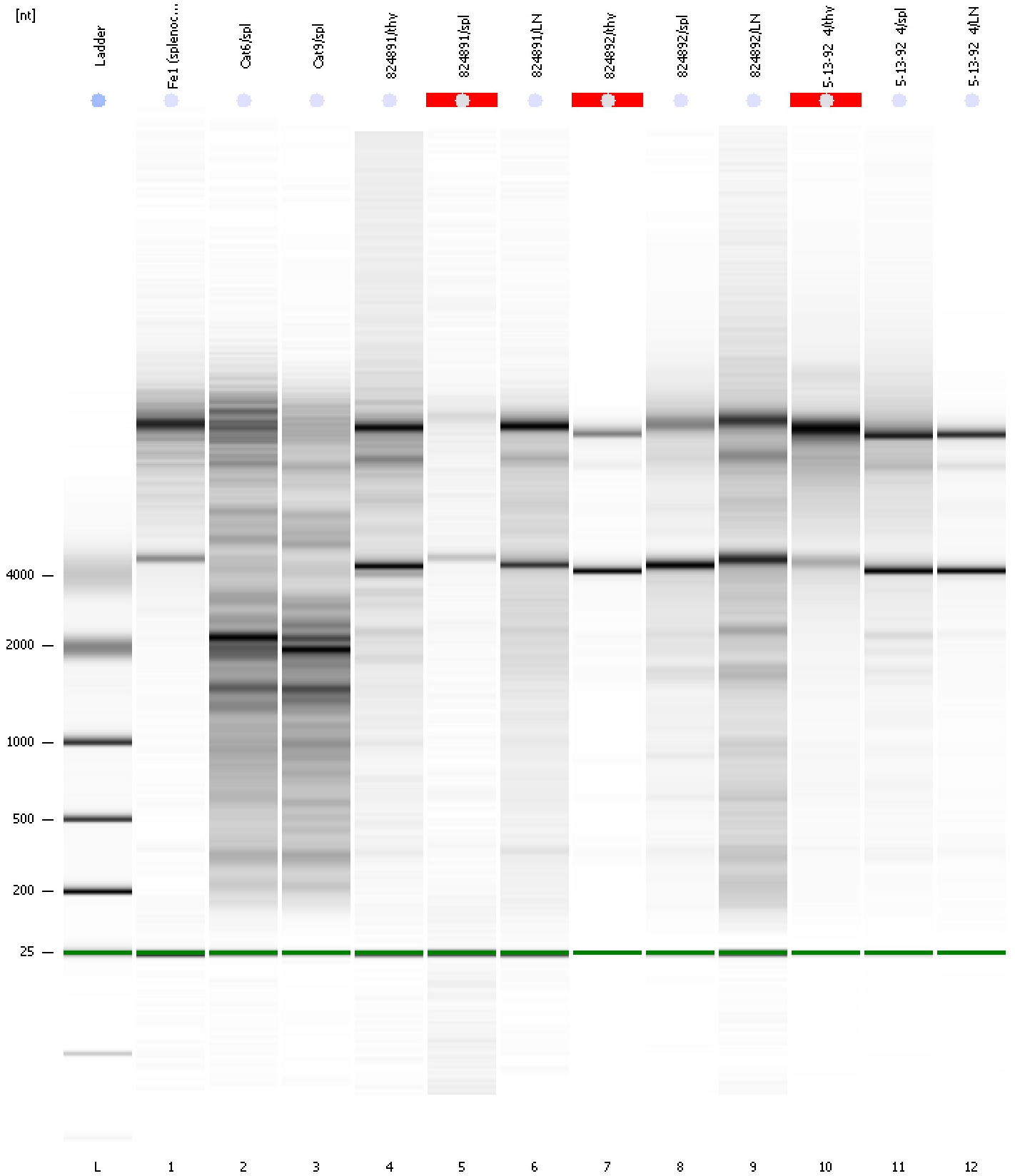
Fragment table for sample 12 : 5-13-92 4/LN

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,500	4,985	49.8	29.6
28S	7,443	9,005	43.7	25.9

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-15\2014-10-15_002.xad

Created: 10/15/2014 3:30:03 PM
Modified: 10/15/2014 3:53:58 PM

Gel Image

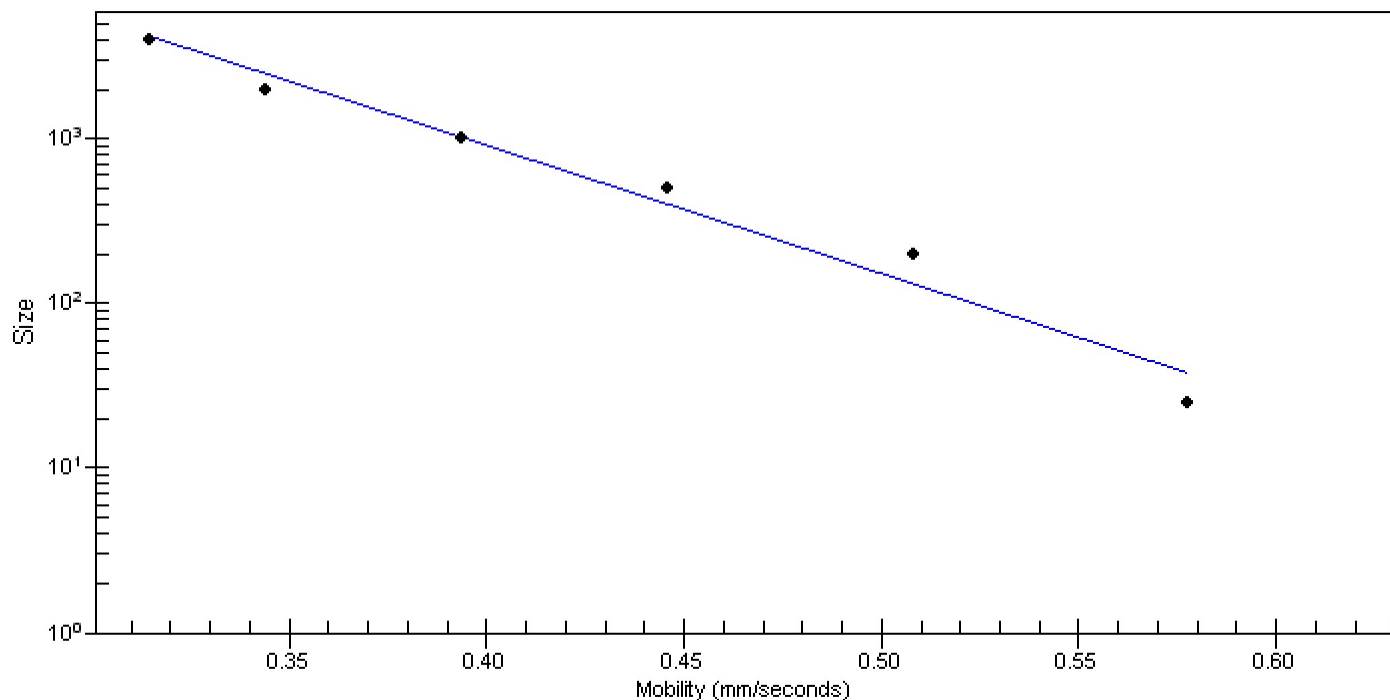


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-15\2014-10-15_002.xad

Created: 10/15/2014 3:30:03 PM
Modified: 10/15/2014 3:53:58 PM

Curves

Standard Curve



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-15\2014-10-15_002.xad

Created: 10/15/2014 3:30:03 PM
 Modified: 10/15/2014 3:53:58 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		10/15/2014 3:53:53 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2014-10-15\2014-10-15_002.xad)		Instrument	Run		10/15/2014 3:30:09 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		10/15/2014 3:30:09 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		10/15/2014 3:30:09 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		10/15/2014 3:30:09 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		10/15/2014 3:30:09 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		10/15/2014 3:30:09 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		10/15/2014 3:30:09 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1