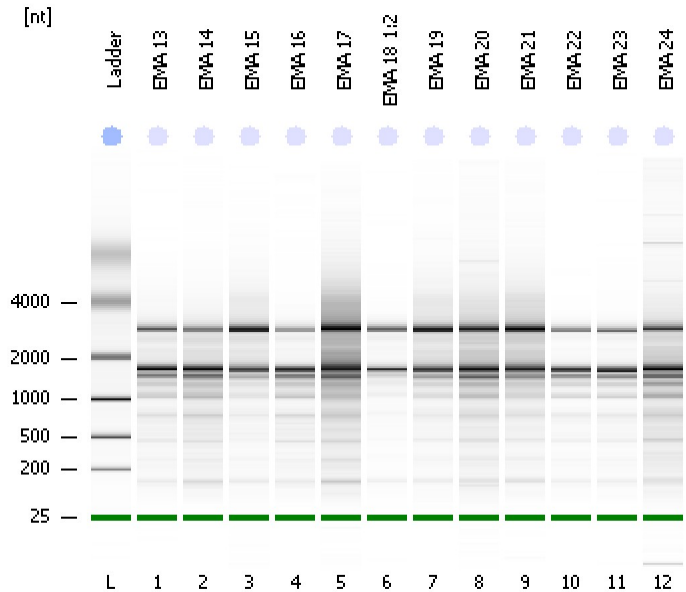


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-25\2013-07-25_005.xad

Created: 7/25/2013 2:29:10 PM
Modified: 7/26/2013 10:07:20 AM

Electrophoresis File Run Summary



Instrument Information:

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

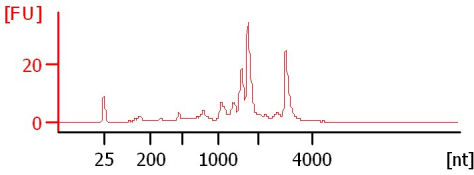
Assay Information:

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.

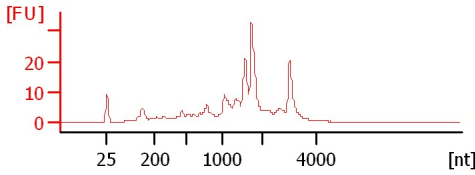
Chip Information:

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

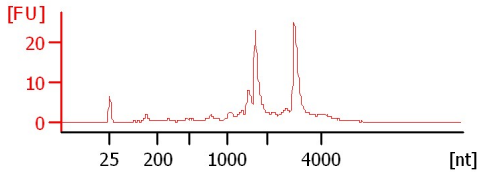
EMA 13
RIN: 6.60



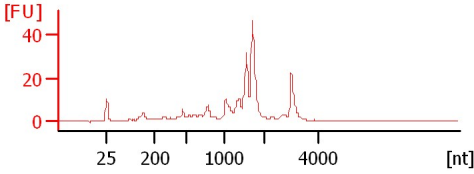
EMA 14
RIN: 6.10



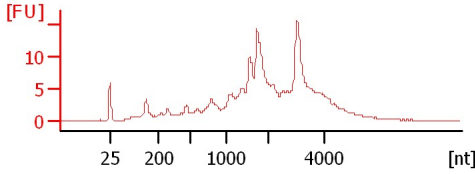
EMA 15
RIN: 7.50



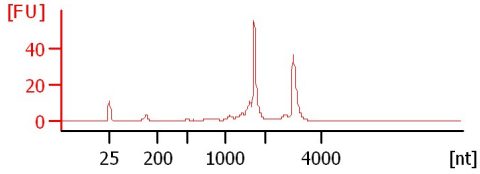
EMA 16
RIN: 6.20



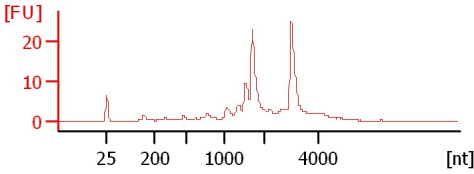
EMA 17
RIN: 6



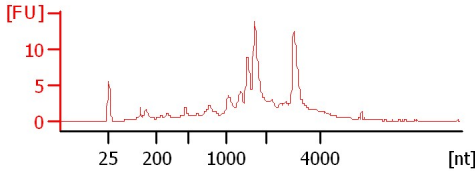
EMA 18 1:2
RIN: 7.60



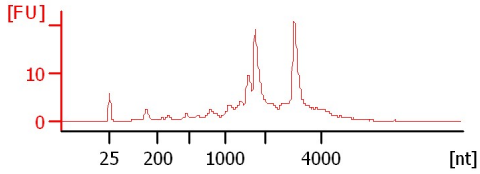
EMA 19
RIN: 7.30



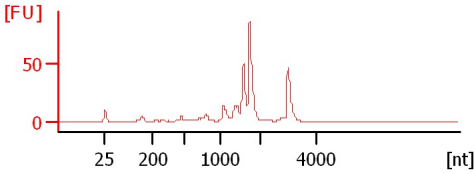
EMA 20
RIN: 6.50



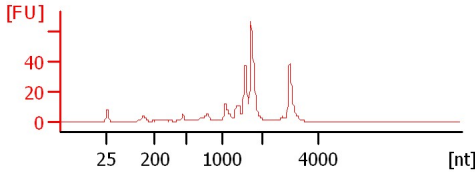
EMA 21
RIN: 6.90



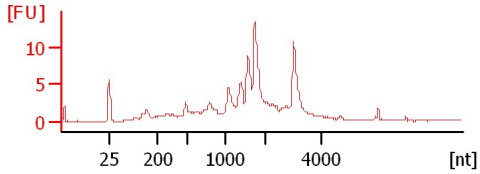
EMA 22
RIN: 6.50



EMA 23
RIN: 6.60



EMA 24
RIN: 2.50



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-25\2013-07-25_005.xad

Created: 7/25/2013 2:29:10 PM
 Modified: 7/26/2013 10:07:20 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
EMA 13		✓	RIN: 6.60	
EMA 14		✓	RIN: 6.10	
EMA 15		✓	RIN: 7.50	
EMA 16		✓	RIN: 6.20	
EMA 17		✓	RIN:6	
EMA 18 1:2		✓	RIN: 7.60	
EMA 19		✓	RIN: 7.30	
EMA 20		✓	RIN: 6.50	
EMA 21		✓	RIN: 6.90	
EMA 22		✓	RIN: 6.50	
EMA 23		✓	RIN: 6.60	
EMA 24		✓	RIN: 2.50	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-25\2013-07-25_005.xad

Created: 7/25/2013 2:29:10 PM
Modified: 7/26/2013 10:07:20 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

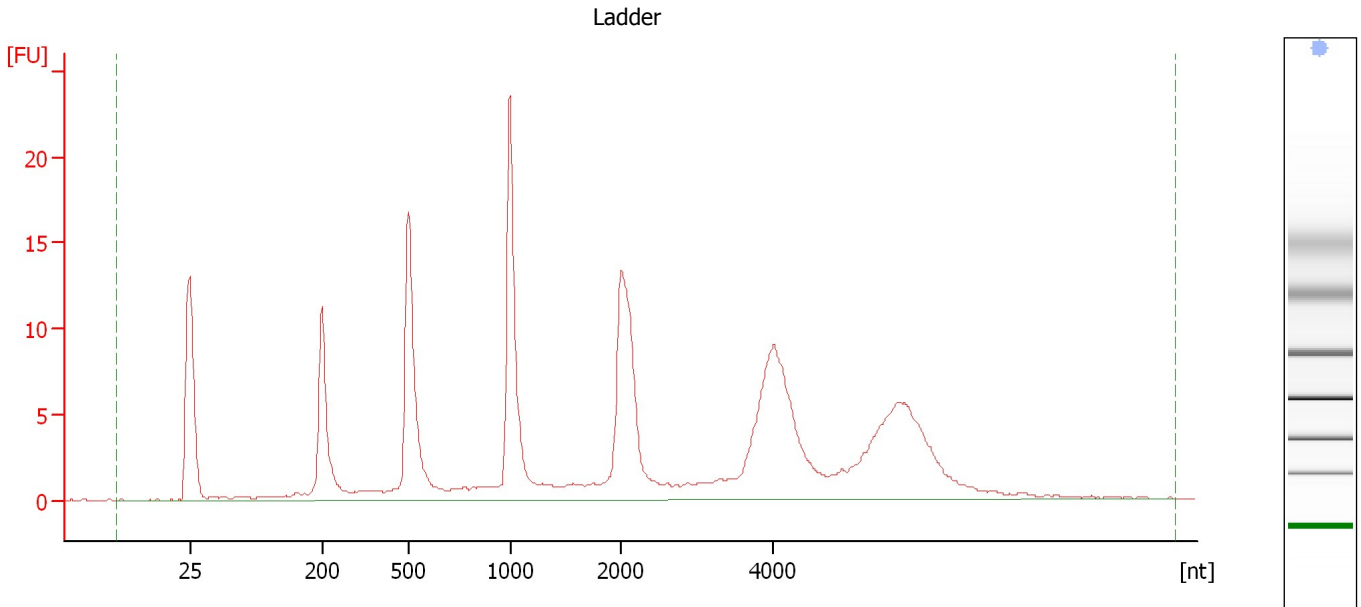
Ladder

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\2013-07-25\2013-07-25_005.xad

Created: 7/25/2013 2:29:10 PM
Modified: 7/26/2013 10:07:20 AM

Electropherogram Summary



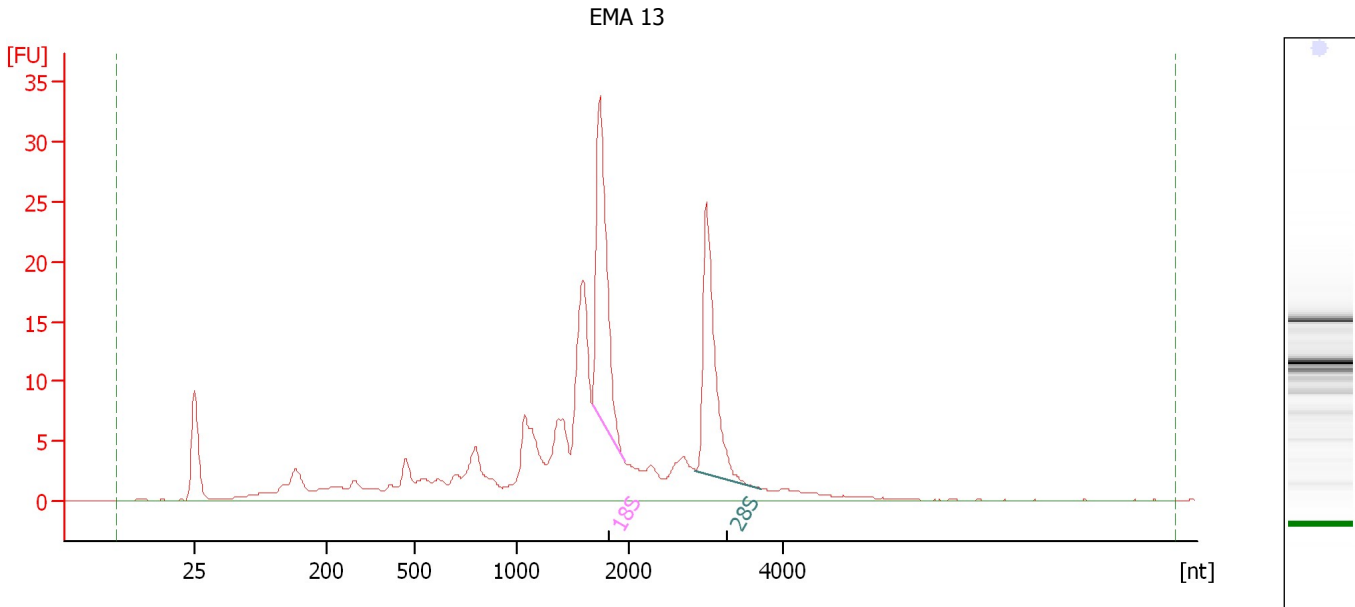
Overall Results for Ladder

RNA Area:	204.0	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\2013-07-25\2013-07-25_005.xad

Created: 7/25/2013 2:29:10 PM
Modified: 7/26/2013 10:07:20 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : EMA 13

RNA Area:	243.5	RNA Integrity Number (RIN):	6.6 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	179 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.8	Result Flagging Label:	RIN: 6.60

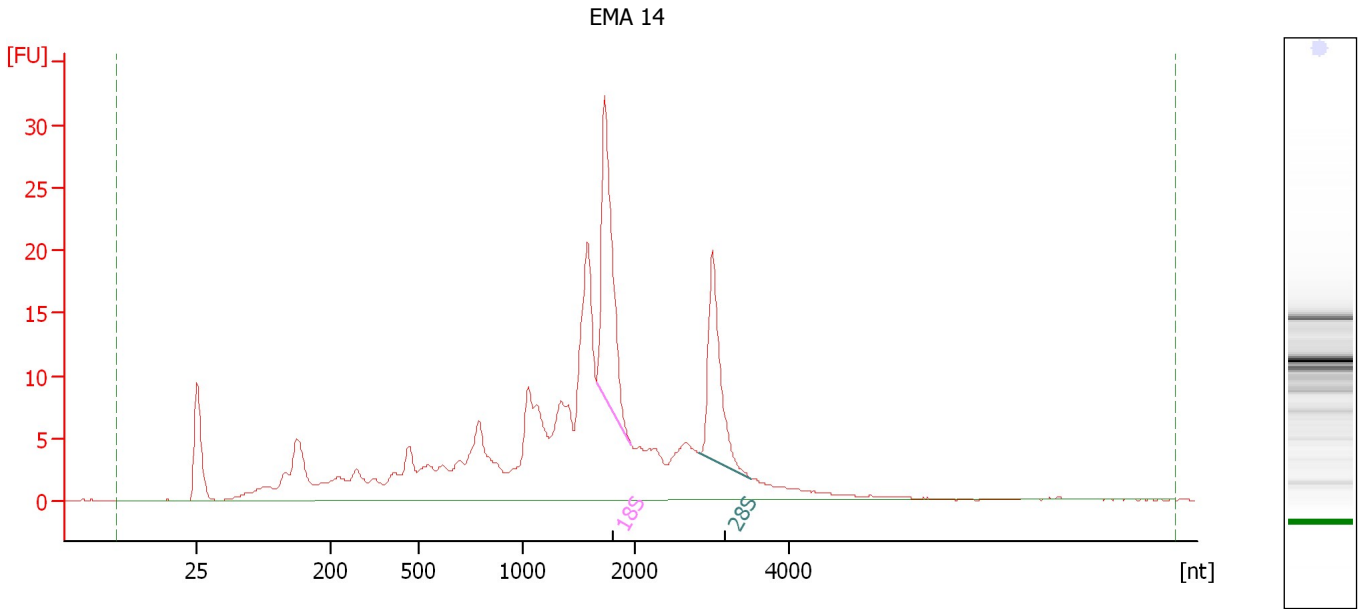
Fragment table for sample 1 : EMA 13

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,670	1,956	35.4	14.5
28S	2,858	3,710	29.6	12.2

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-25\2013-07-25_005.xad

Created: 7/25/2013 2:29:10 PM
Modified: 7/26/2013 10:07:20 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : EMA 14

RNA Area:	303.3	RNA Integrity Number (RIN):	6.1 (B.02.08)
RNA Concentration:	223 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.7	Result Flagging Label:	RIN: 6.10

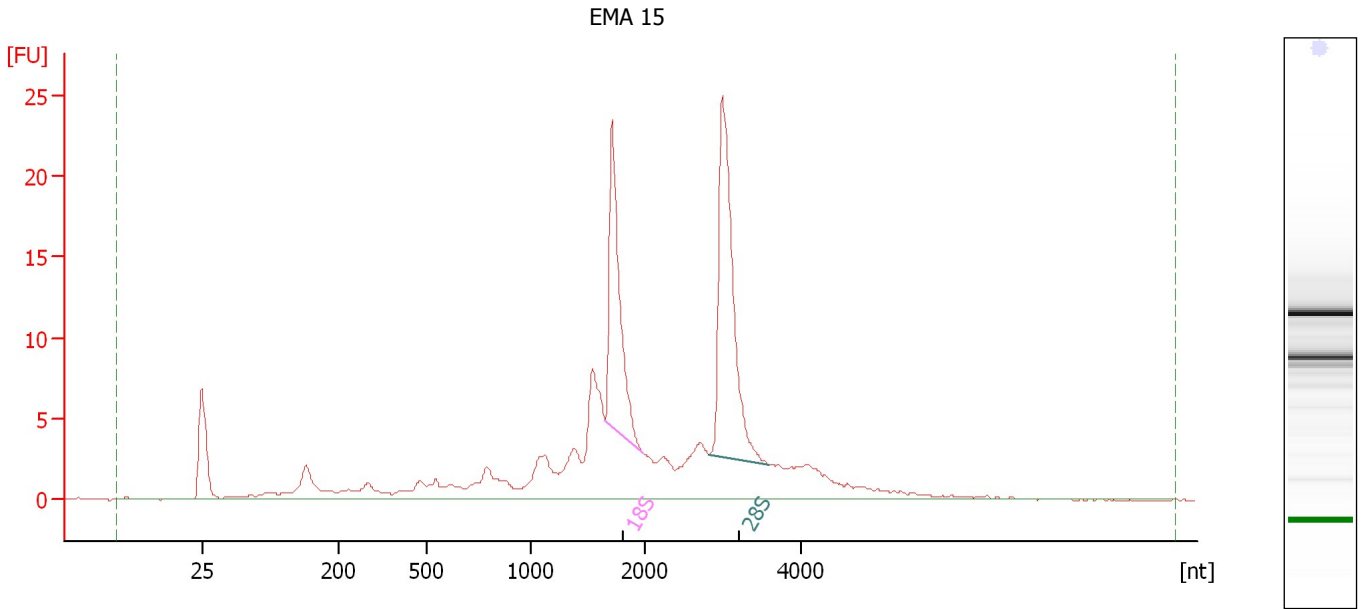
Fragment table for sample 2 : EMA 14

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,657	1,960	33.6	11.1
28S	2,829	3,509	22.2	7.3

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-25\2013-07-25_005.xad

Created: 7/25/2013 2:29:10 PM
 Modified: 7/26/2013 10:07:20 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : EMA 15

RNA Area:	180.1	RNA Integrity Number (RIN):	7.5 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	132 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.5	Result Flagging Label:	RIN: 7.50

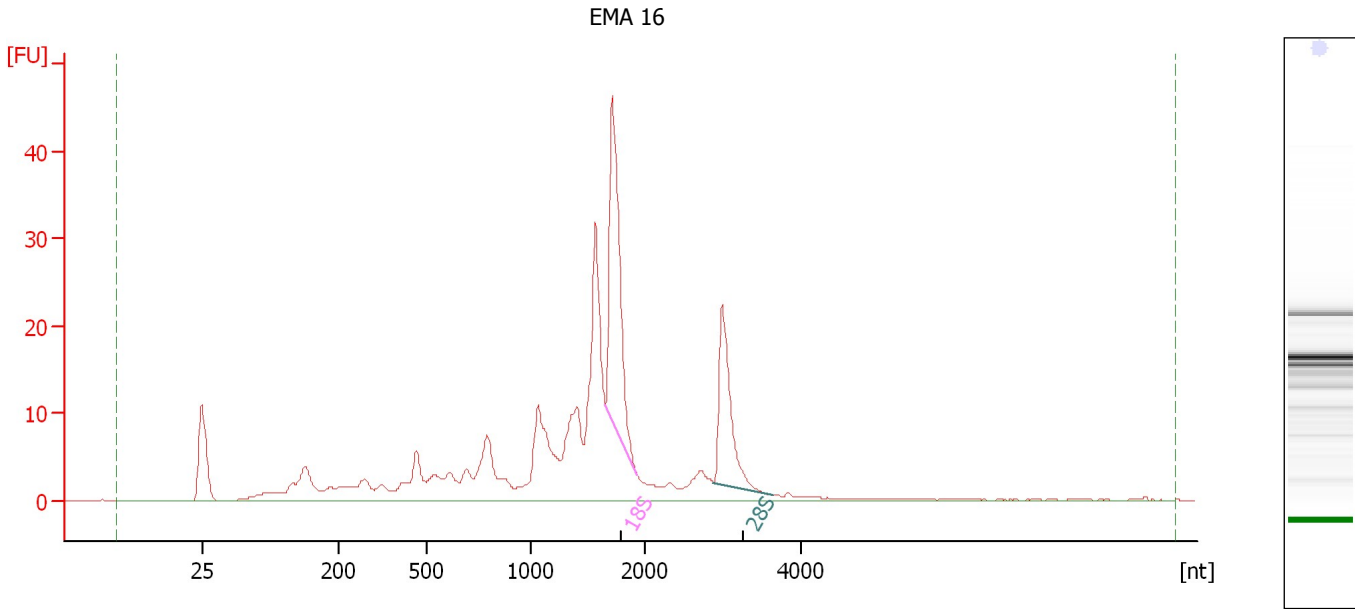
Fragment table for sample 3 : EMA 15

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,647	1,975	23.6	13.1
28S	2,815	3,584	35.0	19.4

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-25\2013-07-25_005.xad

Created: 7/25/2013 2:29:10 PM
Modified: 7/26/2013 10:07:20 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : EMA 16

RNA Area:	302.5	RNA Integrity Number (RIN):	6.2 (B.02.08)
RNA Concentration:	222 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.6	Result Flagging Label:	RIN: 6.20

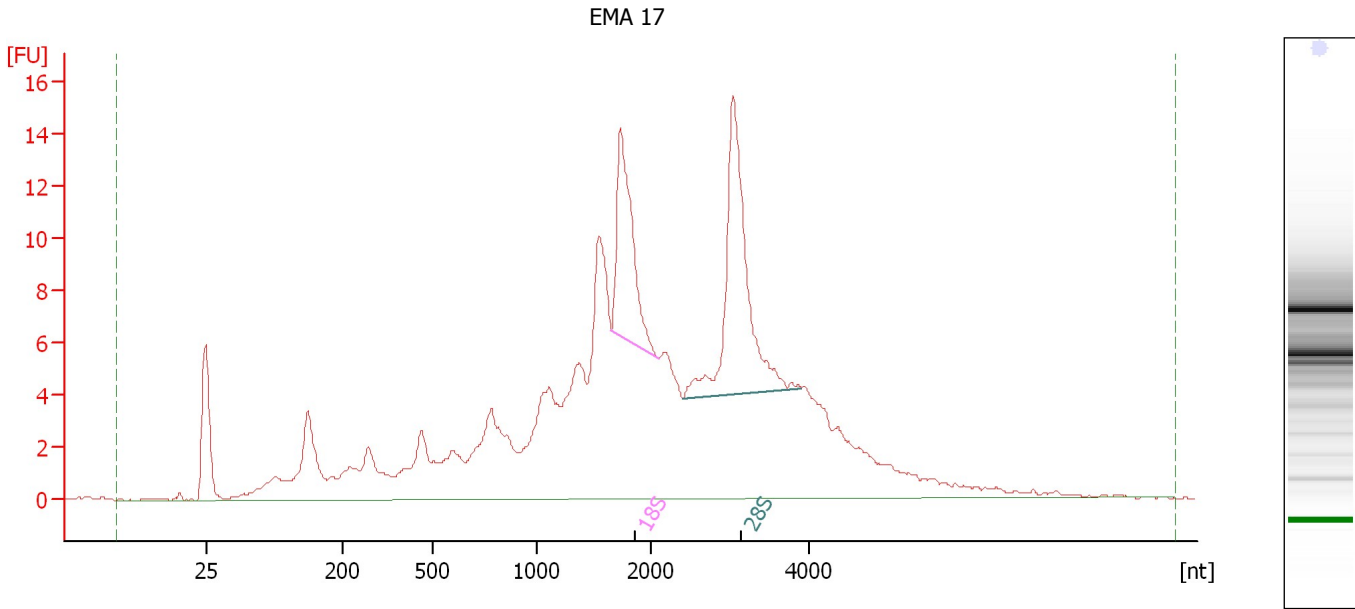
Fragment table for sample 4 : EMA 16

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,647	1,928	46.0	15.2
28S	2,870	3,638	25.9	8.6

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-25\2013-07-25_005.xad

Created: 7/25/2013 2:29:10 PM
Modified: 7/26/2013 10:07:20 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : EMA 17

RNA Area: 264.2 RNA Integrity Number (RIN): 6 (B.02.08)
RNA Concentration: 194 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.7 Result Flagging Label: RIN:6

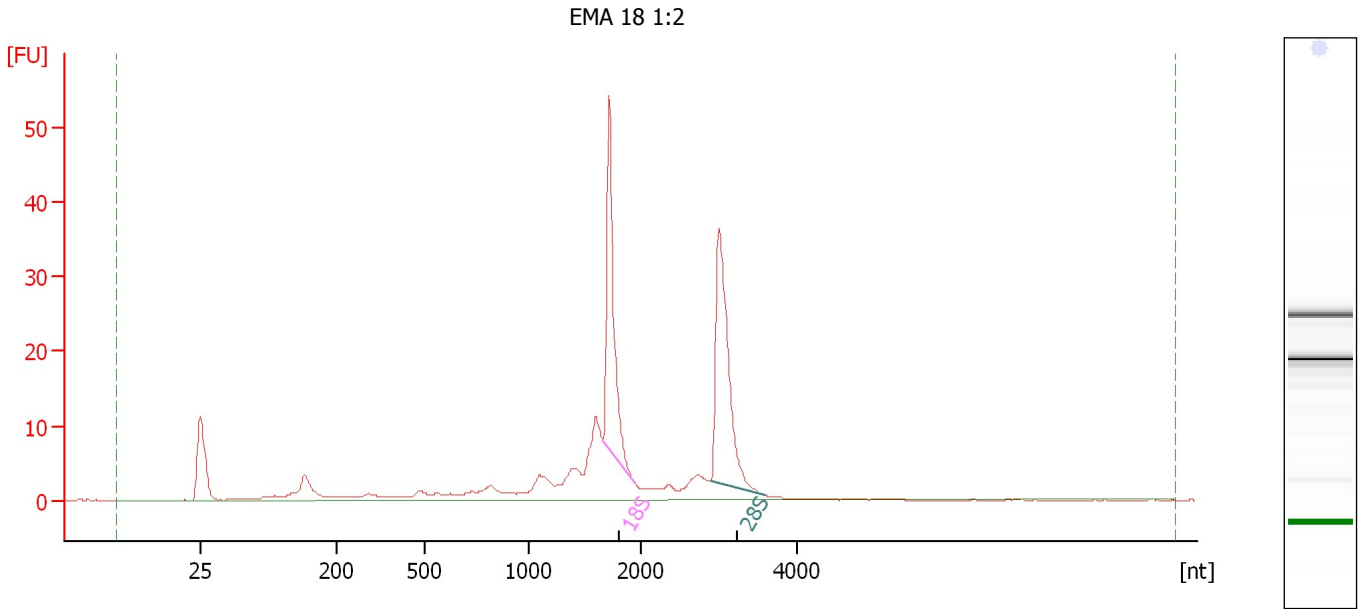
Fragment table for sample 5 : EMA 17

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,653	2,092	15.2	5.8
28S	2,392	3,919	25.9	9.8

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-25\2013-07-25_005.xad

Created: 7/25/2013 2:29:10 PM
Modified: 7/26/2013 10:07:20 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : EMA 18 1:2

RNA Area:	205.6	RNA Integrity Number (RIN):	7.6 (B.02.08)
RNA Concentration:	151 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.2	Result Flagging Label:	RIN: 7.60

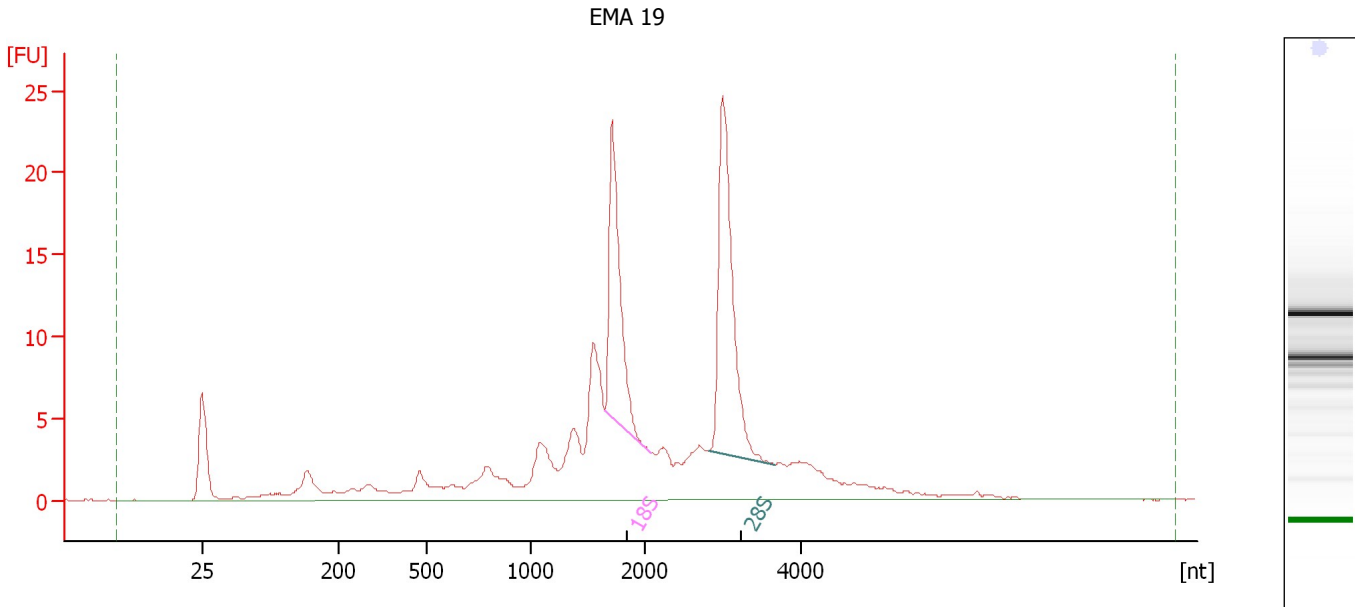
Fragment table for sample 6 : EMA 18 1:2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,662	1,945	40.9	19.9
28S	2,898	3,587	48.5	23.6

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-25\2013-07-25_005.xad

Created: 7/25/2013 2:29:10 PM
 Modified: 7/26/2013 10:07:20 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : EMA 19

RNA Area:	194.7	RNA Integrity Number (RIN):	7.3 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	143 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.4	Result Flagging Label:	RIN: 7.30

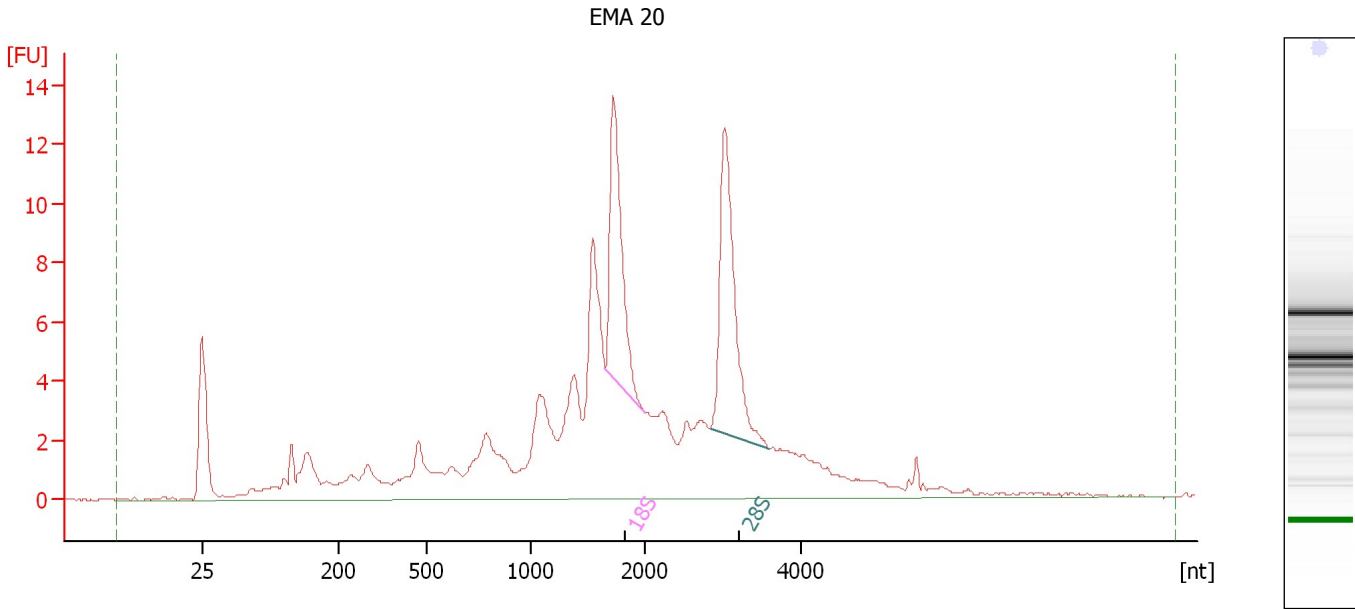
Fragment table for sample 7 : EMA 19

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,647	2,060	23.8	12.2
28S	2,815	3,652	33.9	17.4

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-25\2013-07-25_005.xad

Created: 7/25/2013 2:29:10 PM
Modified: 7/26/2013 10:07:20 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : EMA 20

RNA Area: 158.9 RNA Integrity Number (RIN): 6.5 (B.02.08)
RNA Concentration: 117 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.2 Result Flagging Label: RIN: 6.50

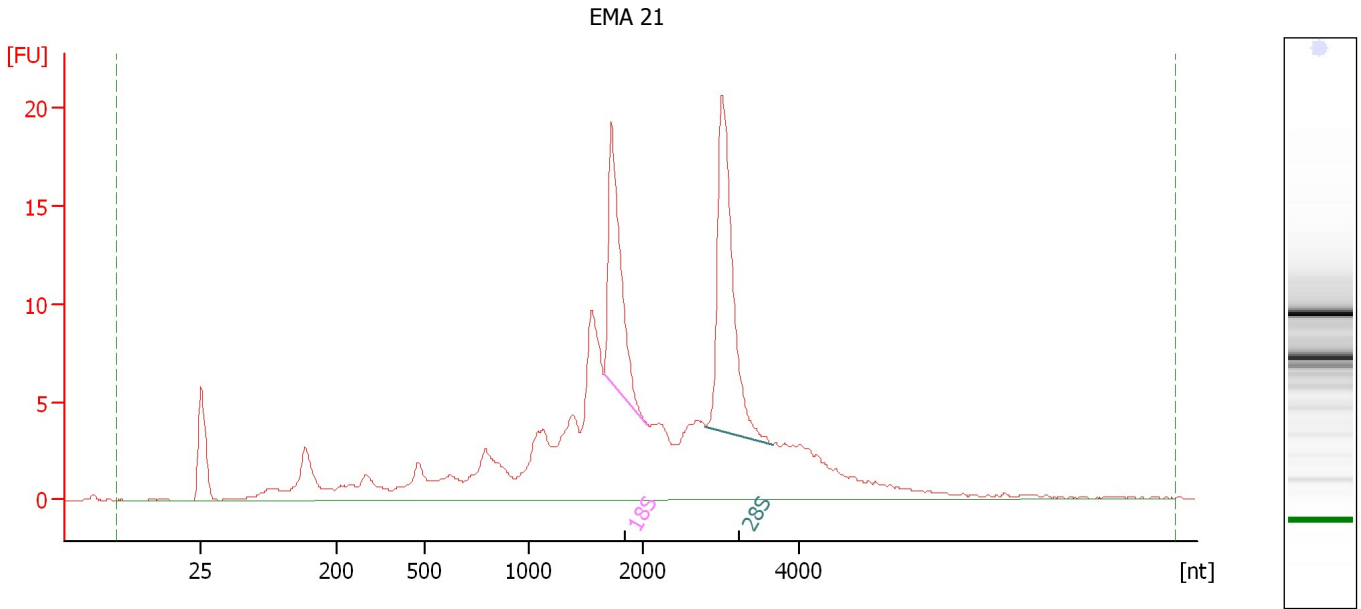
Fragment table for sample 8 : EMA 20

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,647	1,994	13.7	8.6
28S	2,829	3,597	16.8	10.6

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-25\2013-07-25_005.xad

Created: 7/25/2013 2:29:10 PM
Modified: 7/26/2013 10:07:20 AM

Electropherogram Summary Continued ...



Overall Results for sample 9 : EMA 21

RNA Area: 215.8 RNA Integrity Number (RIN): 6.9 (B.02.08)
RNA Concentration: 159 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.5 Result Flagging Label: RIN: 6.90

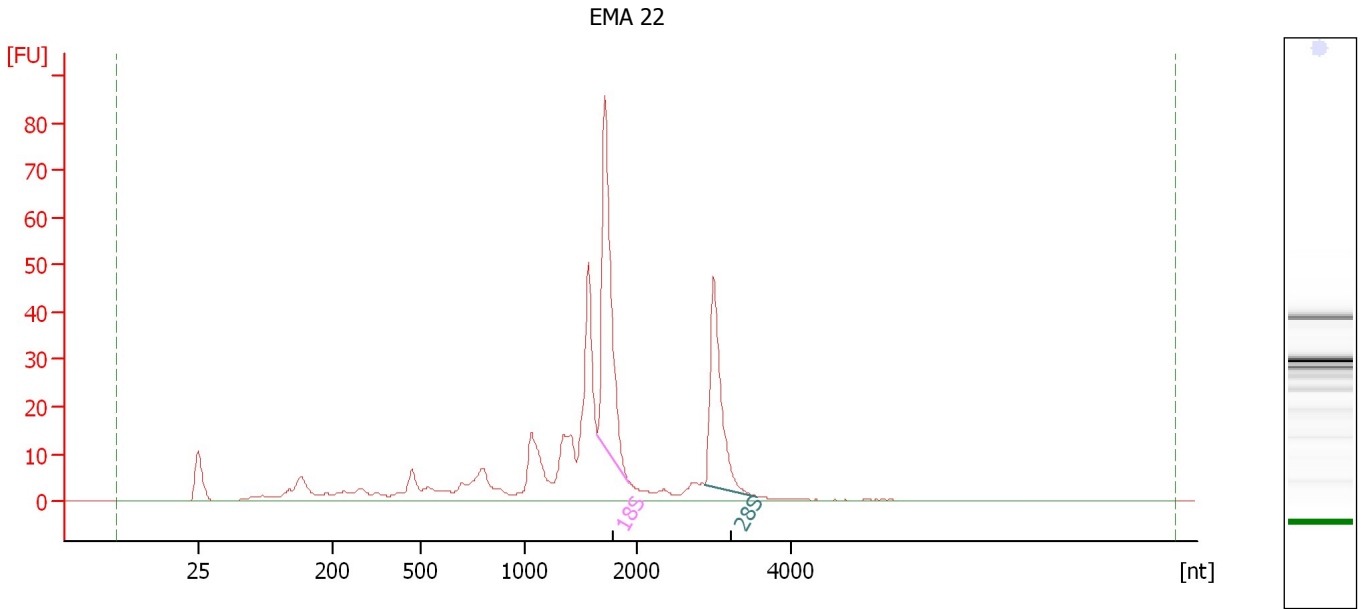
Fragment table for sample 9 : EMA 21

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,655	2,045	20.1	9.3
28S	2,801	3,654	29.2	13.5

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-25\2013-07-25_005.xad

Created: 7/25/2013 2:29:10 PM
 Modified: 7/26/2013 10:07:20 AM

Electropherogram Summary Continued ...



Overall Results for sample 10 : EMA 22

RNA Area:	421.1	RNA Integrity Number (RIN):	6.5 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	310 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.6	Result Flagging Label:	RIN: 6.50

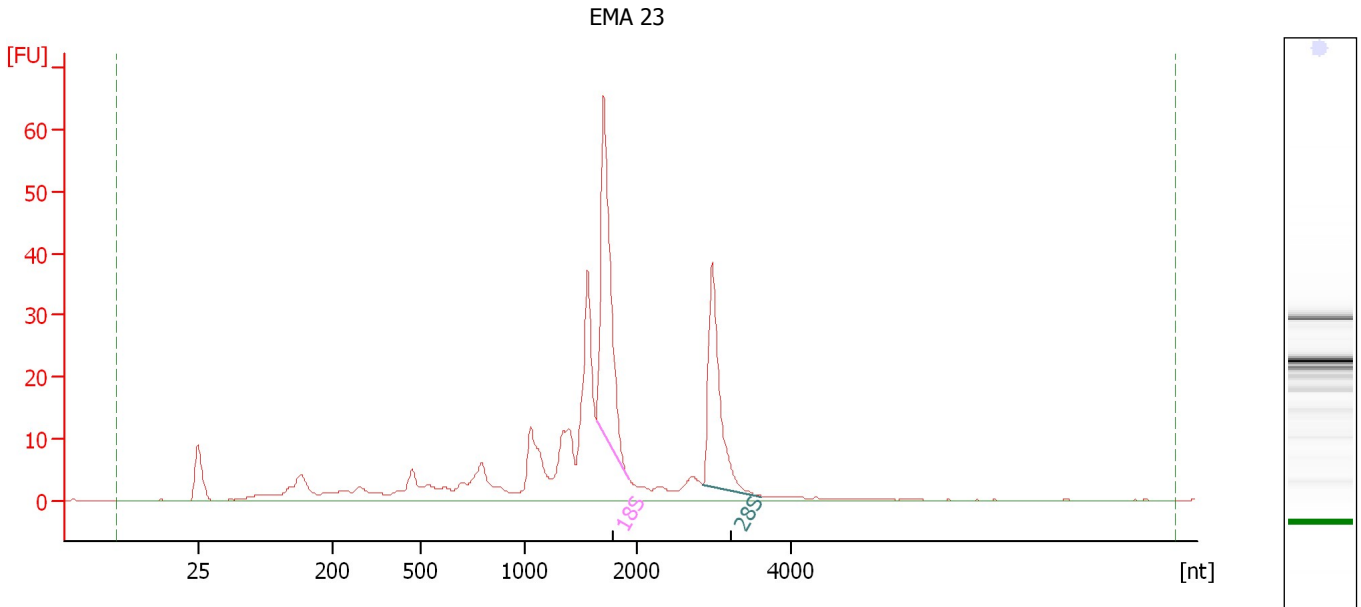
Fragment table for sample 10 : EMA 22

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,649	1,933	86.6	20.6
28S	2,885	3,549	54.6	13.0

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-25\2013-07-25_005.xad

Created: 7/25/2013 2:29:10 PM
 Modified: 7/26/2013 10:07:20 AM

Electropherogram Summary Continued ...



Overall Results for sample 11 : EMA 23

RNA Area:	349.6	RNA Integrity Number (RIN):	6.6 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	257 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.7	Result Flagging Label:	RIN: 6.60

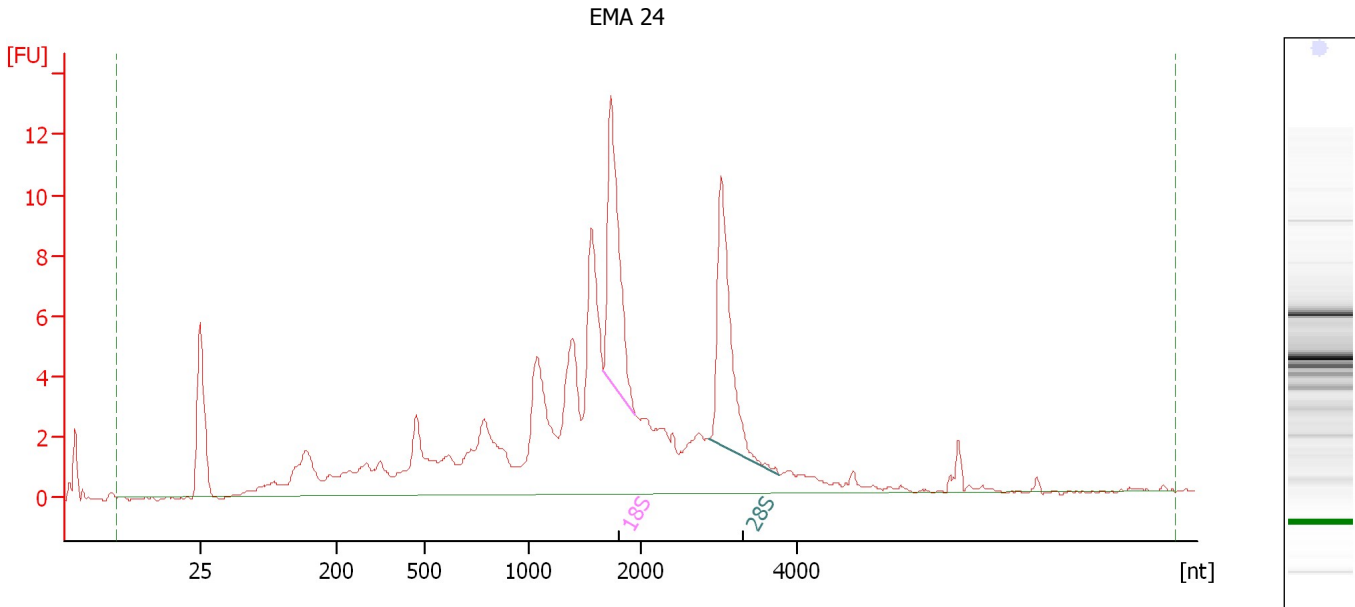
Fragment table for sample 11 : EMA 23

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,640	1,923	67.9	19.4
28S	2,857	3,604	45.0	12.9

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-25\2013-07-25_005.xad

Created: 7/25/2013 2:29:10 PM
Modified: 7/26/2013 10:07:20 AM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 12 : EMA 24

Height Threshold [FU] : 1

Overall Results for sample 12 : EMA 24

RNA Area:	142.3	RNA Integrity Number (RIN):	2.5 (B.02.08)
RNA Concentration:	105 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.0	Result Flagging Label:	RIN: 2.50

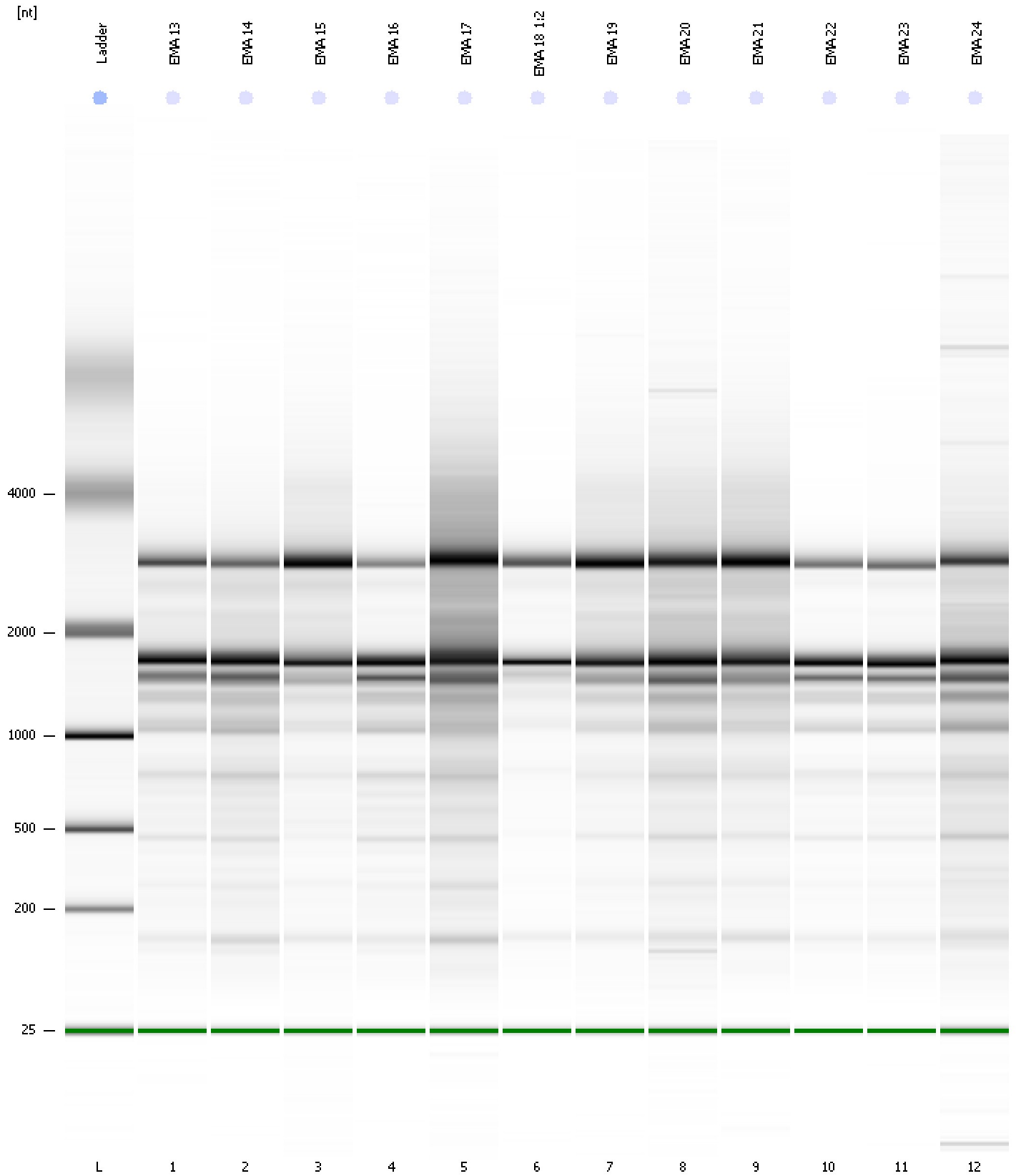
Fragment table for sample 12 : EMA 24

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,662	1,945	13.3	9.3
28S	2,870	3,780	13.1	9.2

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-25\2013-07-25_005.xad

Created: 7/25/2013 2:29:10 PM
Modified: 7/26/2013 10:07:20 AM

Gel Image



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-25\2013-07-25_005.xad

Created: 7/25/2013 2:29:10 PM
 Modified: 7/26/2013 10:07:20 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		7/25/2013 2:52:55 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2013-07-25\2013-07-25_005.xad)		Instrument	Run		7/25/2013 2:29:11 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		7/25/2013 2:29:11 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		7/25/2013 2:29:11 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		7/25/2013 2:29:11 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		7/25/2013 2:29:11 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		7/25/2013 2:29:11 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		7/25/2013 2:29:11 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1