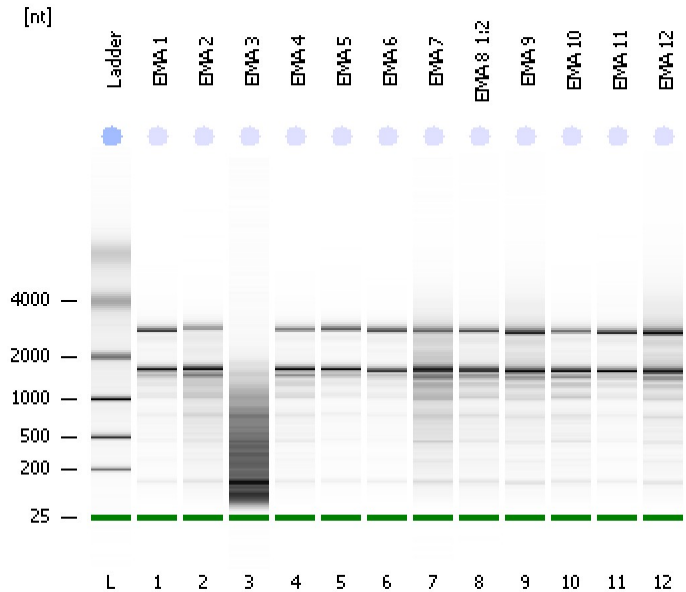


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-25\2013-07-25_003.xad

Created: 7/25/2013 12:06:16 PM
Modified: 7/25/2013 12:33:40 PM

Electrophoresis File Run Summary



Instrument Information:

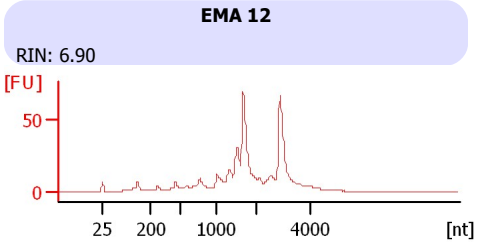
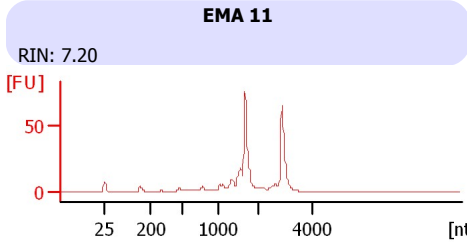
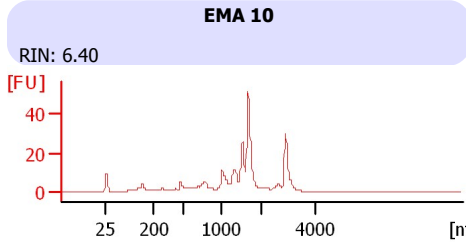
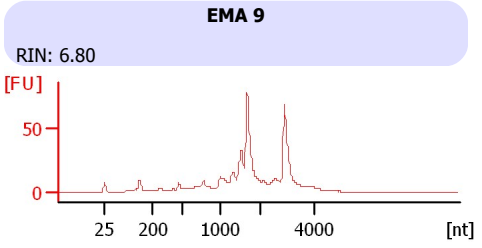
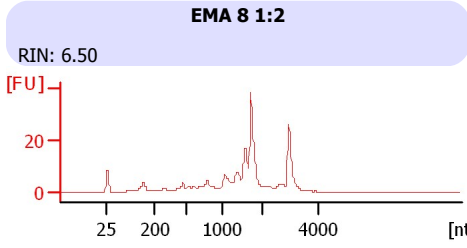
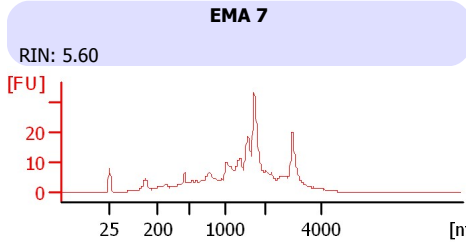
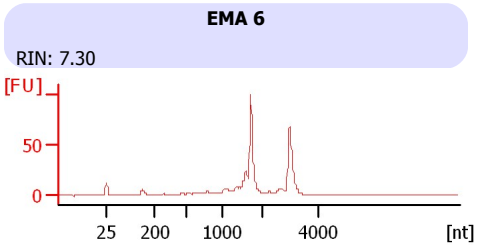
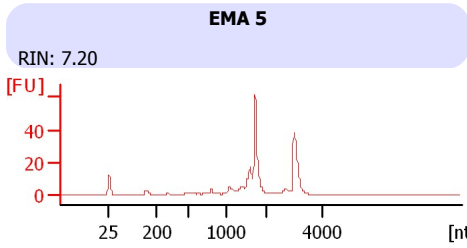
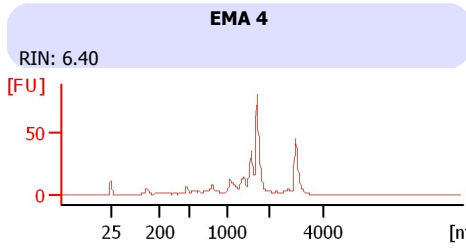
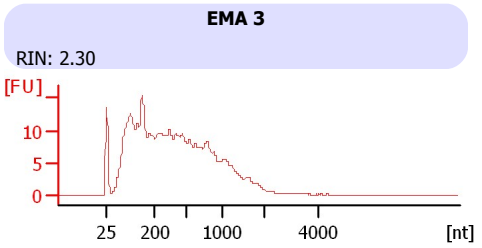
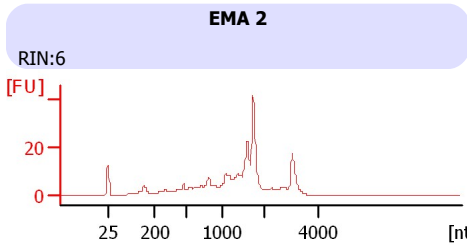
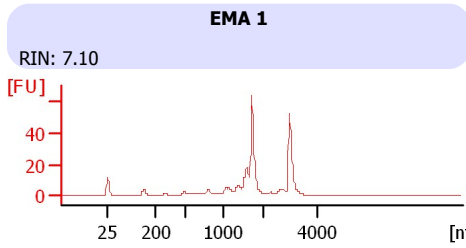
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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:



Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-25\2013-07-25_003.xad

Created: 7/25/2013 12:06:16 PM
Modified: 7/25/2013 12:33:40 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
EMA 1		✓	RIN: 7.10	
EMA 2		✓	RIN:6	
EMA 3		✓	RIN: 2.30	
EMA 4		✓	RIN: 6.40	
EMA 5		✓	RIN: 7.20	
EMA 6		✓	RIN: 7.30	
EMA 7		✓	RIN: 5.60	
EMA 8 1:2		✓	RIN: 6.50	
EMA 9		✓	RIN: 6.80	
EMA 10		✓	RIN: 6.40	
EMA 11		✓	RIN: 7.20	
EMA 12		✓	RIN: 6.90	
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_003.xad

Created: 7/25/2013 12:06:16 PM
Modified: 7/25/2013 12:33:40 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/ 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

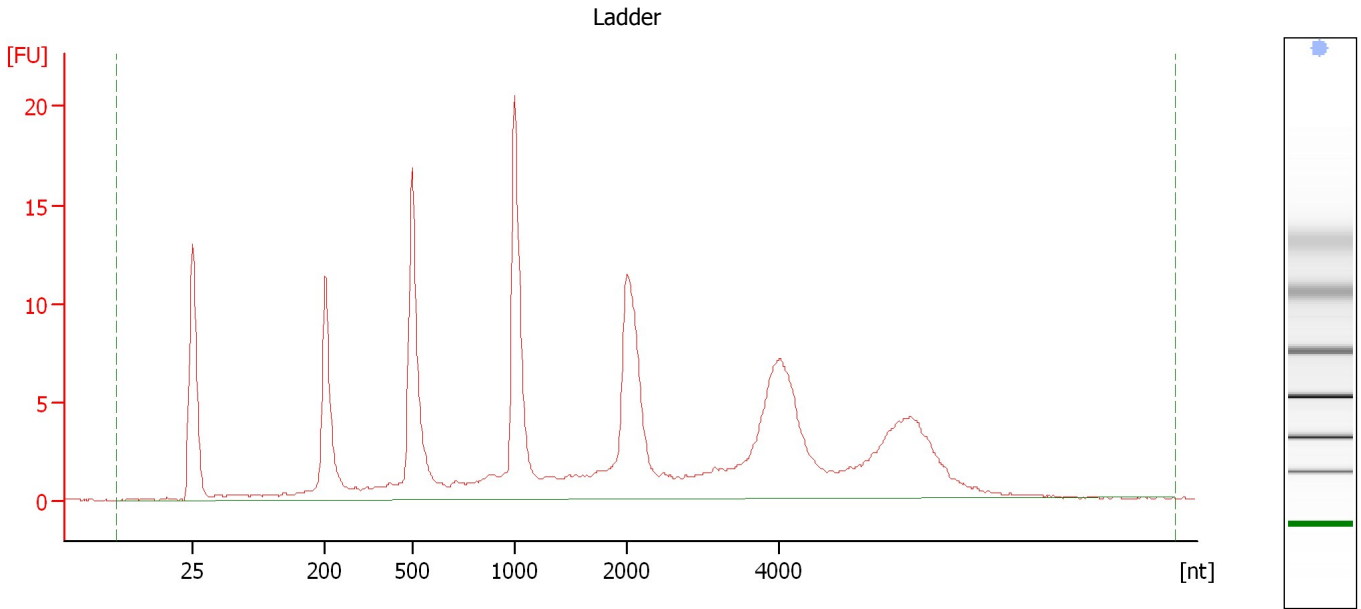
Ladder

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\2013-07-25\2013-07-25_003.xad

Created: 7/25/2013 12:06:16 PM
Modified: 7/25/2013 12:33:40 PM

Electropherogram Summary



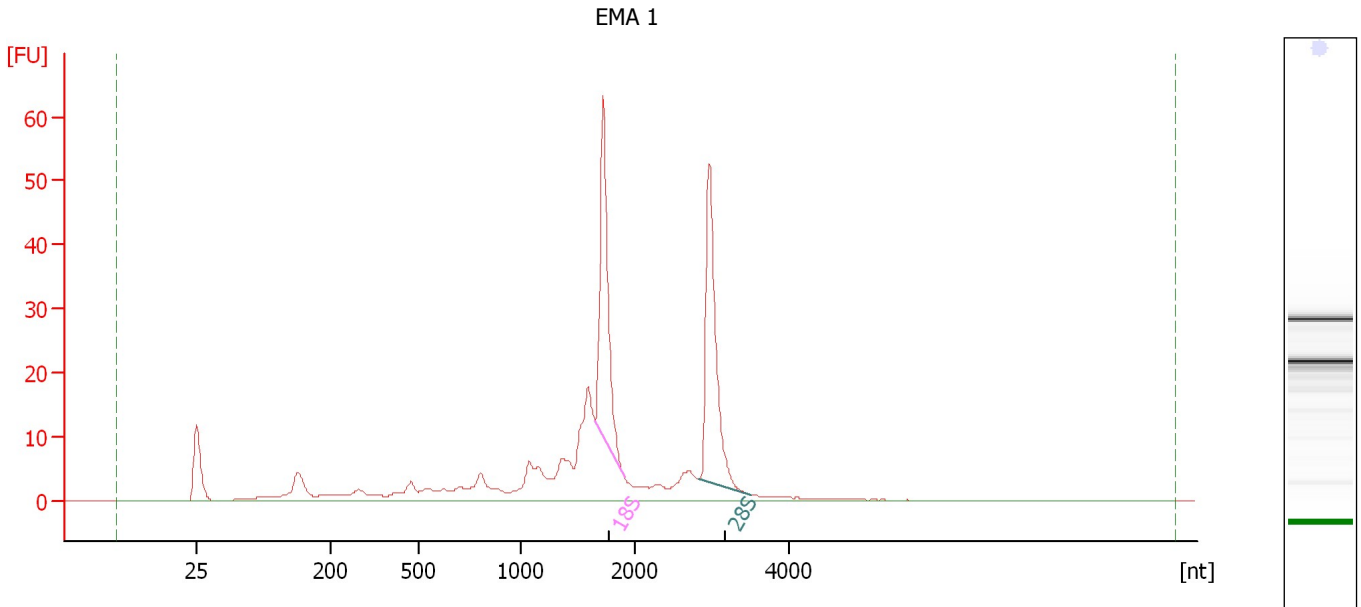
Overall Results for Ladder

RNA Area:	194.9	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_003.xad

Created: 7/25/2013 12:06:16 PM
 Modified: 7/25/2013 12:33:40 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : EMA 1

RNA Area:	291.8	RNA Integrity Number (RIN):	7.1 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	225 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.0	Result Flagging Label:	RIN: 7.10

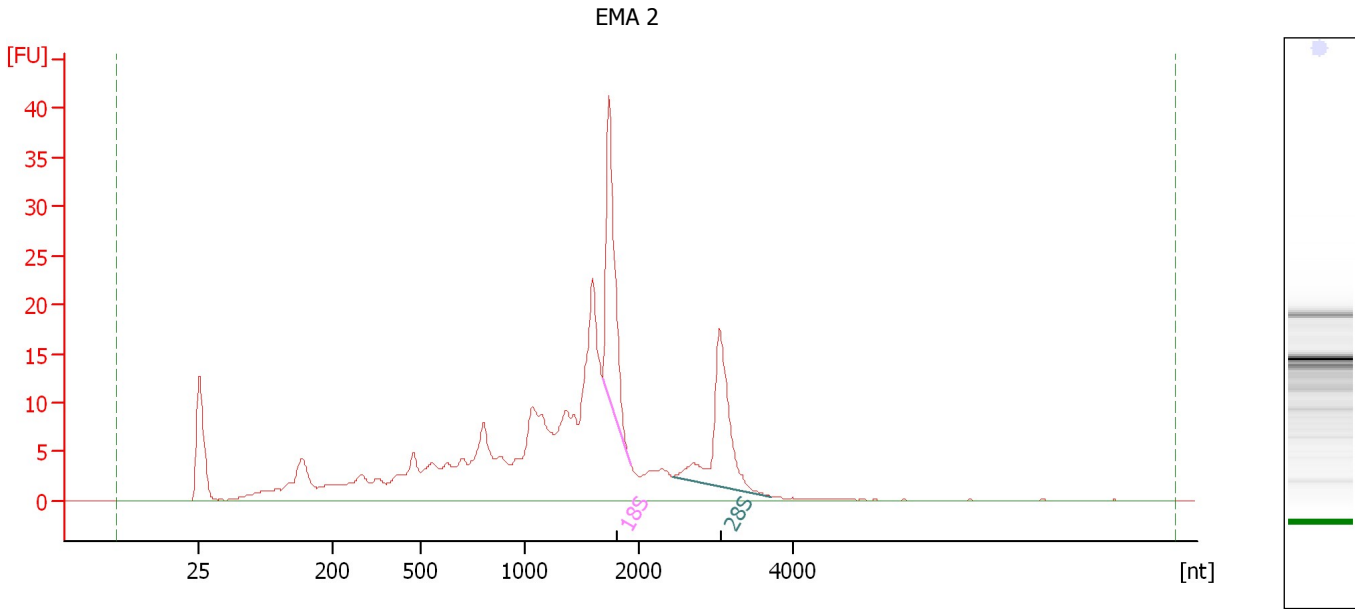
Fragment table for sample 1 : EMA 1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,648	1,901	52.8	18.1
28S	2,830	3,514	54.4	18.6

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-25\2013-07-25_003.xad

Created: 7/25/2013 12:06:16 PM
Modified: 7/25/2013 12:33:40 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : EMA 2

RNA Area: 316.7 RNA Integrity Number (RIN): 6 (B.02.08)
RNA Concentration: 244 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.9 Result Flagging Label: RIN:6

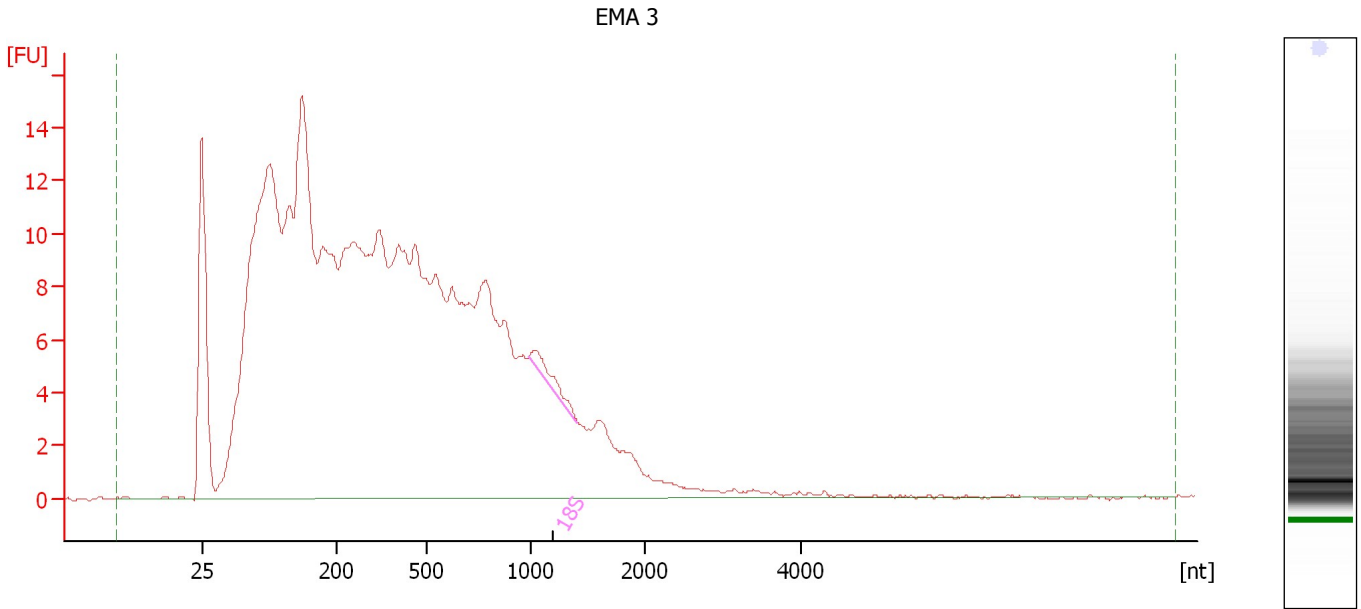
Fragment table for sample 2 : EMA 2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,671	1,922	33.7	10.6
28S	2,426	3,706	28.9	9.1

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-25\2013-07-25_003.xad

Created: 7/25/2013 12:06:16 PM
Modified: 7/25/2013 12:33:40 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : EMA 3

RNA Area:	444.0	RNA Integrity Number (RIN):	2.3 (B.02.08)
RNA Concentration:	342 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.30

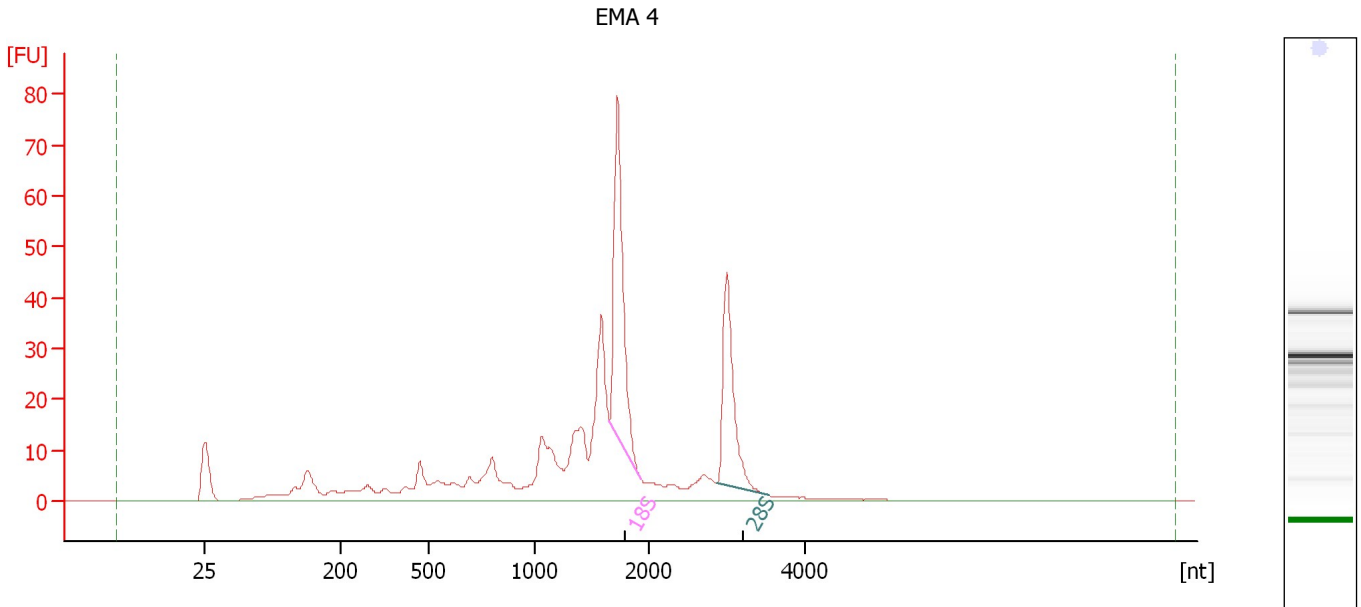
Fragment table for sample 3 : EMA 3

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	995	1,408	2.0	0.5

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-25\2013-07-25_003.xad

Created: 7/25/2013 12:06:16 PM
Modified: 7/25/2013 12:33:40 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : EMA 4

RNA Area:	423.2	RNA Integrity Number (RIN):	6.4 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	326 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.7	Result Flagging Label:	RIN: 6.40

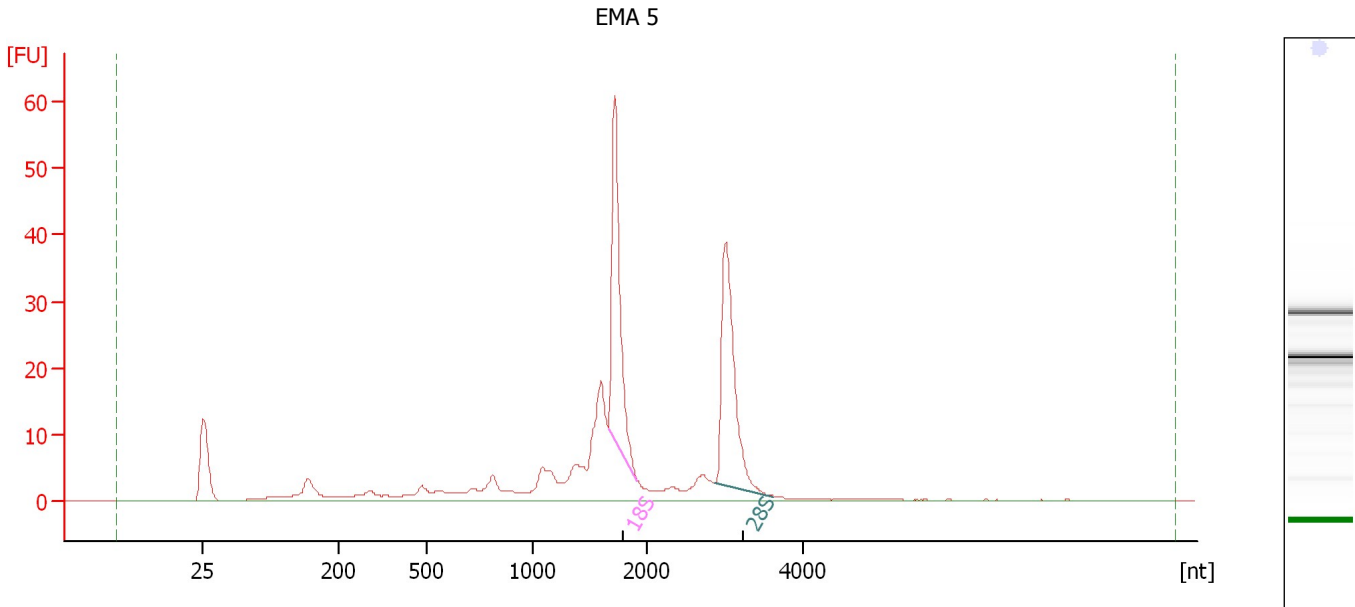
Fragment table for sample 4 : EMA 4

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,652	1,919	71.9	17.0
28S	2,870	3,530	48.0	11.3

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-25\2013-07-25_003.xad

Created: 7/25/2013 12:06:16 PM
 Modified: 7/25/2013 12:33:40 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : EMA 5

RNA Area:	254.5	RNA Integrity Number (RIN):	7.2 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	196 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.0	Result Flagging Label:	RIN: 7.20

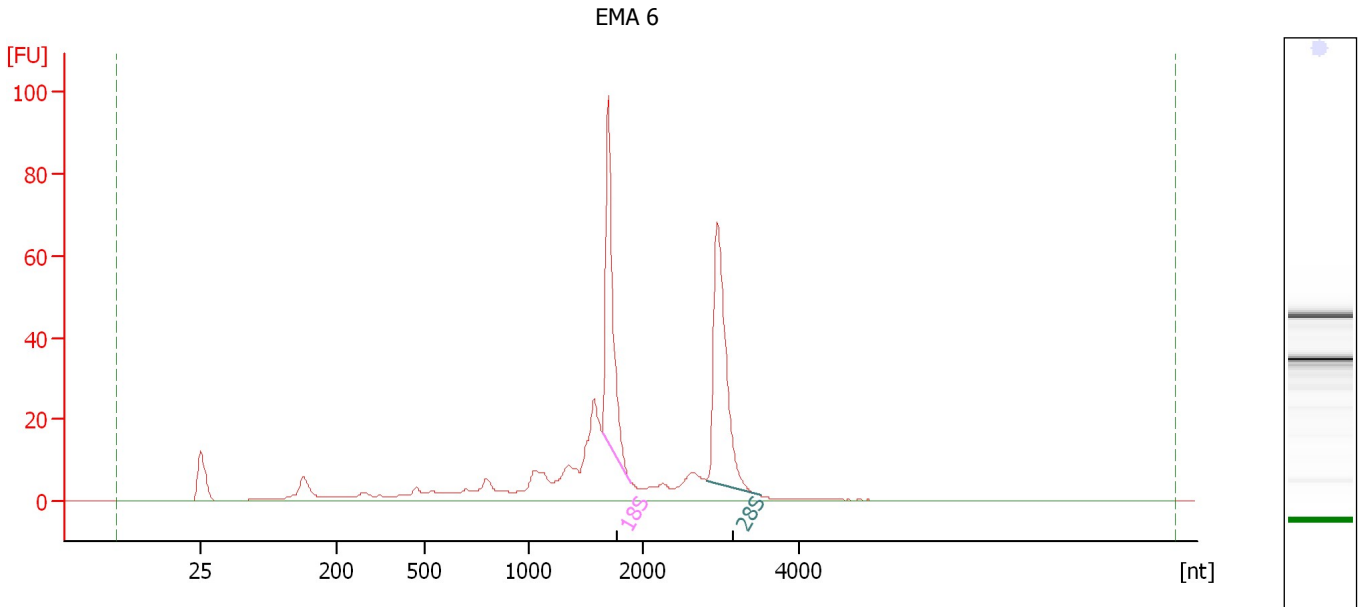
Fragment table for sample 5 : EMA 5

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,659	1,909	48.9	19.2
28S	2,857	3,615	51.3	20.1

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-25\2013-07-25_003.xad

Created: 7/25/2013 12:06:16 PM
 Modified: 7/25/2013 12:33:40 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : EMA 6

RNA Area:	409.4	RNA Integrity Number (RIN):	7.3 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	315 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.2	Result Flagging Label:	RIN: 7.30

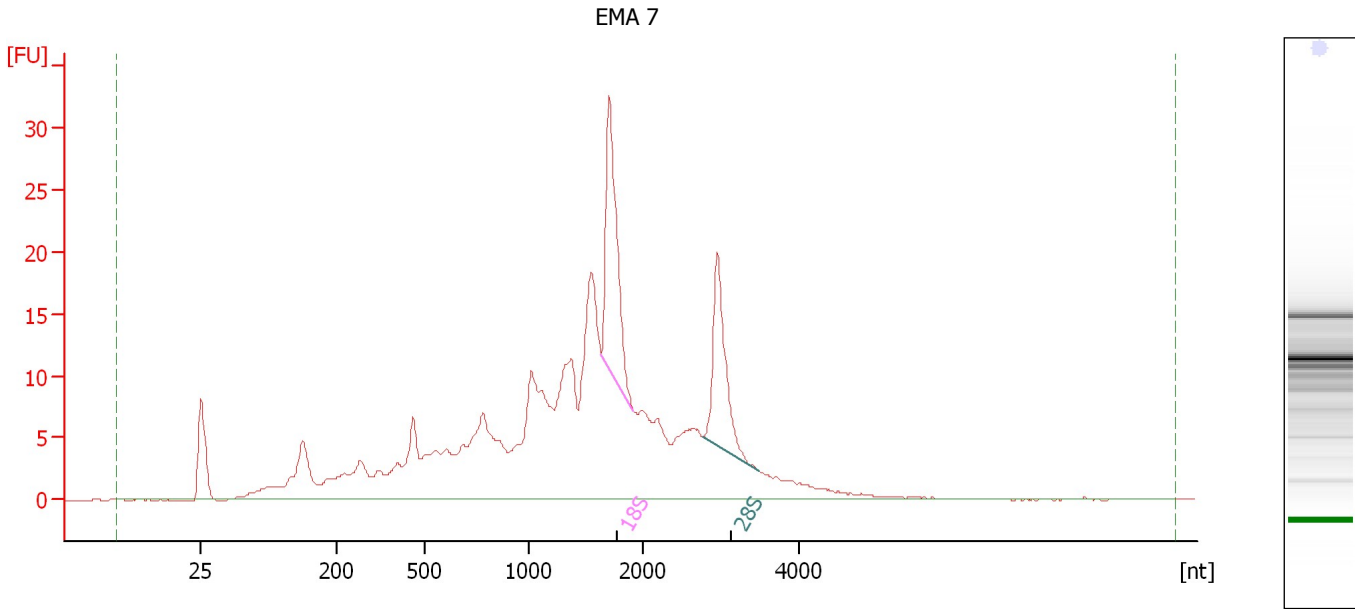
Fragment table for sample 6 : EMA 6

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,637	1,888	76.7	18.7
28S	2,815	3,508	90.4	22.1

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-25\2013-07-25_003.xad

Created: 7/25/2013 12:06:16 PM
Modified: 7/25/2013 12:33:40 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : EMA 7

RNA Area:	367.3	RNA Integrity Number (RIN):	5.6 (B.02.08)
RNA Concentration:	283 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.7	Result Flagging Label:	RIN: 5.60

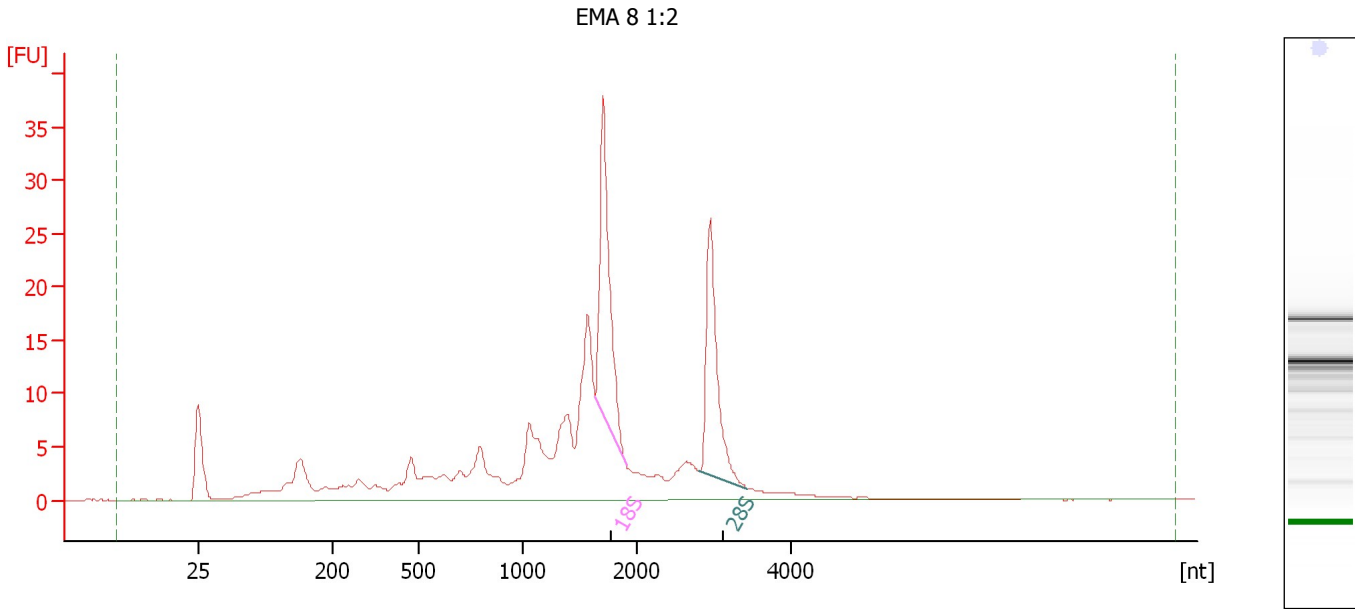
Fragment table for sample 7 : EMA 7

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,628	1,906	30.8	8.4
28S	2,760	3,494	22.1	6.0

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-25\2013-07-25_003.xad

Created: 7/25/2013 12:06:16 PM
Modified: 7/25/2013 12:33:40 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : EMA 8 1:2

RNA Area: 255.8 RNA Integrity Number (RIN): 6.5 (B.02.08)
RNA Concentration: 197 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.8 Result Flagging Label: RIN: 6.50

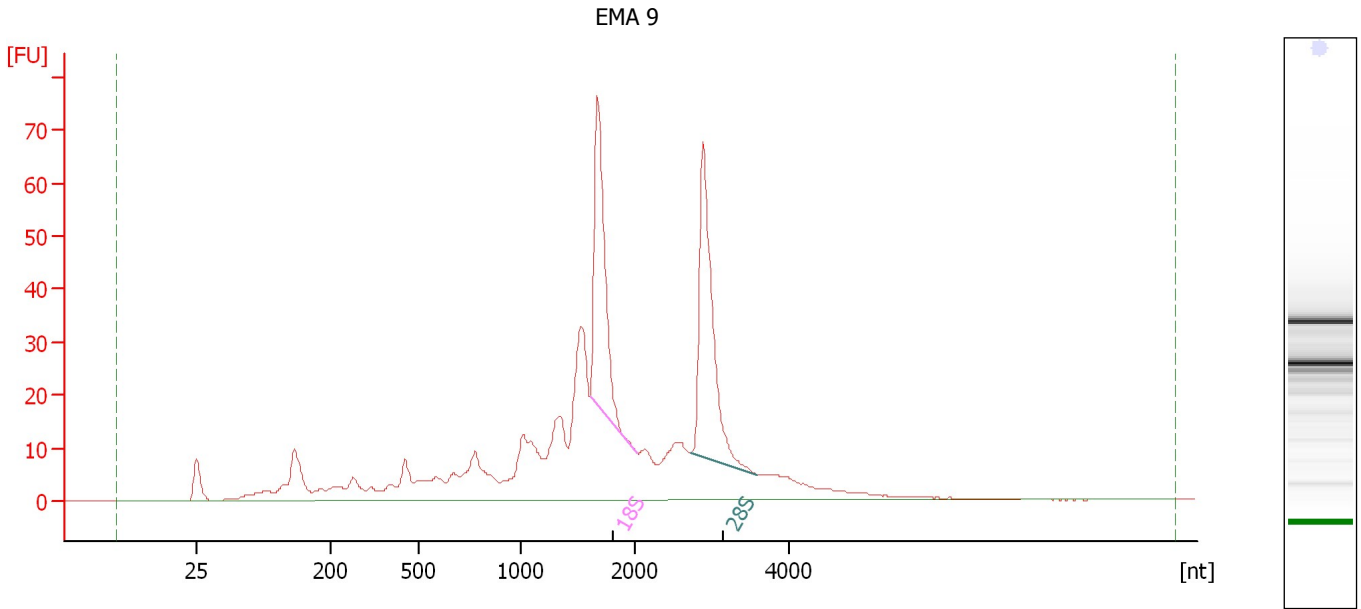
Fragment table for sample 8 : EMA 8 1:2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,632	1,902	35.9	14.0
28S	2,802	3,429	28.6	11.2

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-25\2013-07-25_003.xad

Created: 7/25/2013 12:06:16 PM
Modified: 7/25/2013 12:33:40 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : EMA 9

RNA Area:	632.3	RNA Integrity Number (RIN):	6.8 (B.02.08)
RNA Concentration:	487 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.2	Result Flagging Label:	RIN: 6.80

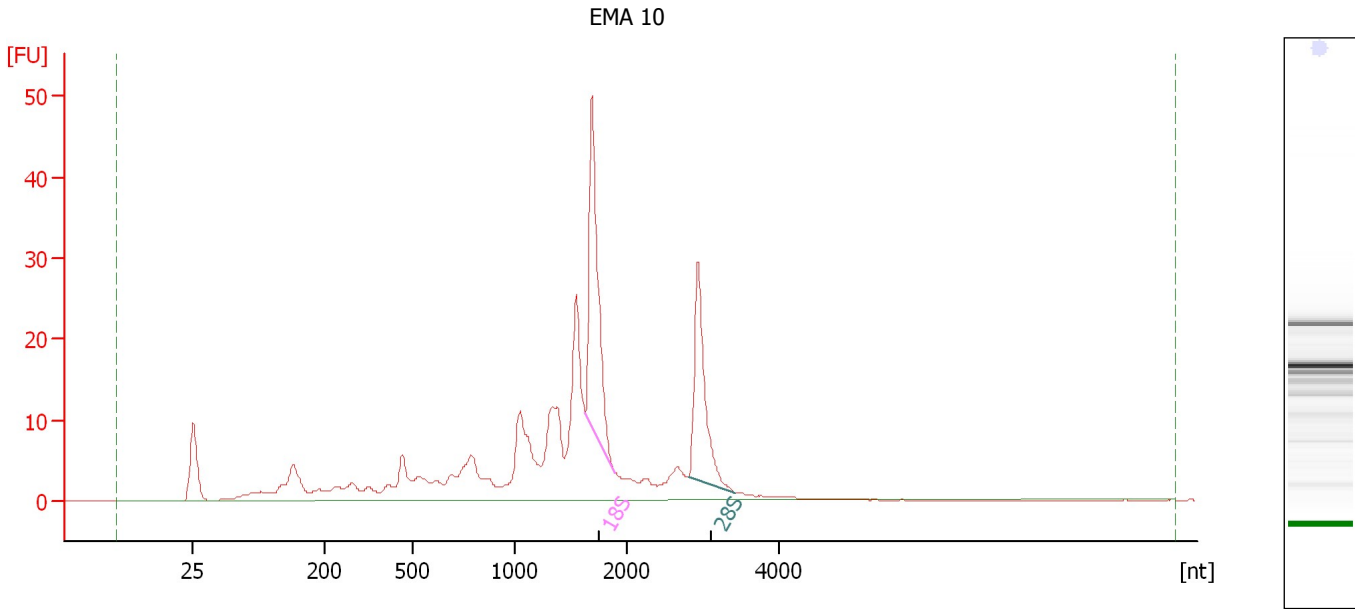
Fragment table for sample 9 : EMA 9

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,602	2,006	76.4	12.1
28S	2,718	3,584	88.6	14.0

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-25\2013-07-25_003.xad

Created: 7/25/2013 12:06:16 PM
Modified: 7/25/2013 12:33:40 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : EMA 10

RNA Area:	301.1	RNA Integrity Number (RIN):	6.4 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	232 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.7	Result Flagging Label:	RIN: 6.40

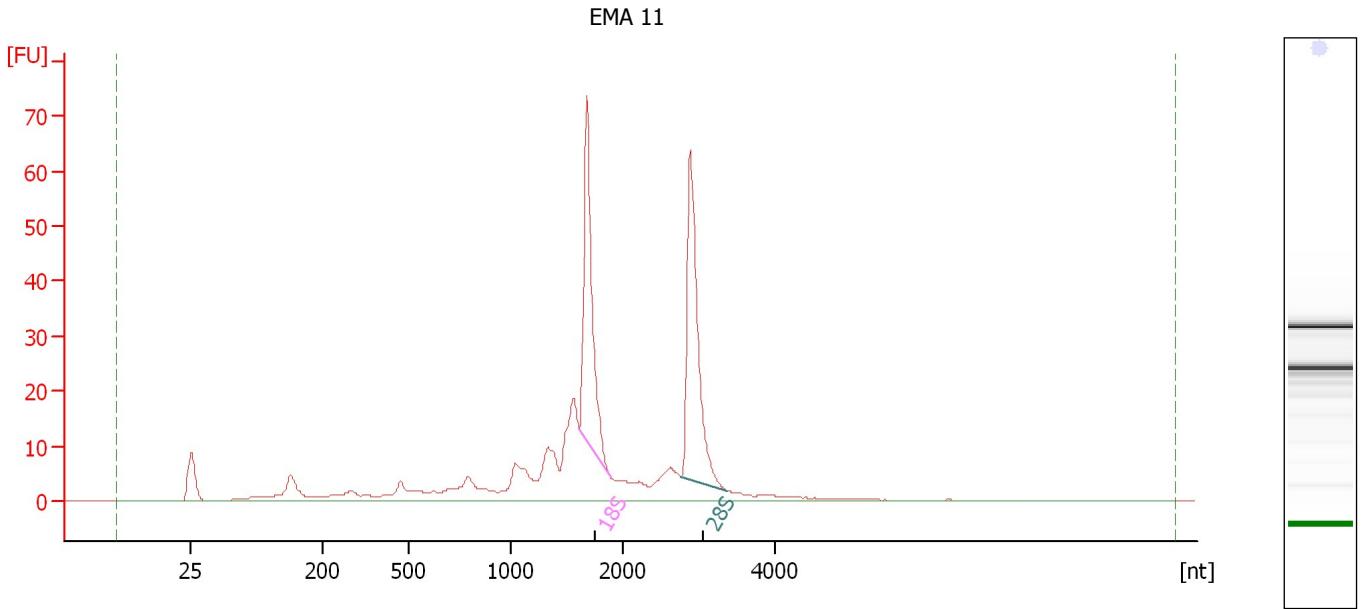
Fragment table for sample 10 : EMA 10

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,622	1,886	46.6	15.5
28S	2,802	3,422	32.7	10.9

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-25\2013-07-25_003.xad

Created: 7/25/2013 12:06:16 PM
Modified: 7/25/2013 12:33:40 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : EMA 11

RNA Area:	348.4	RNA Integrity Number (RIN):	7.2 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	268 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.1	Result Flagging Label:	RIN: 7.20

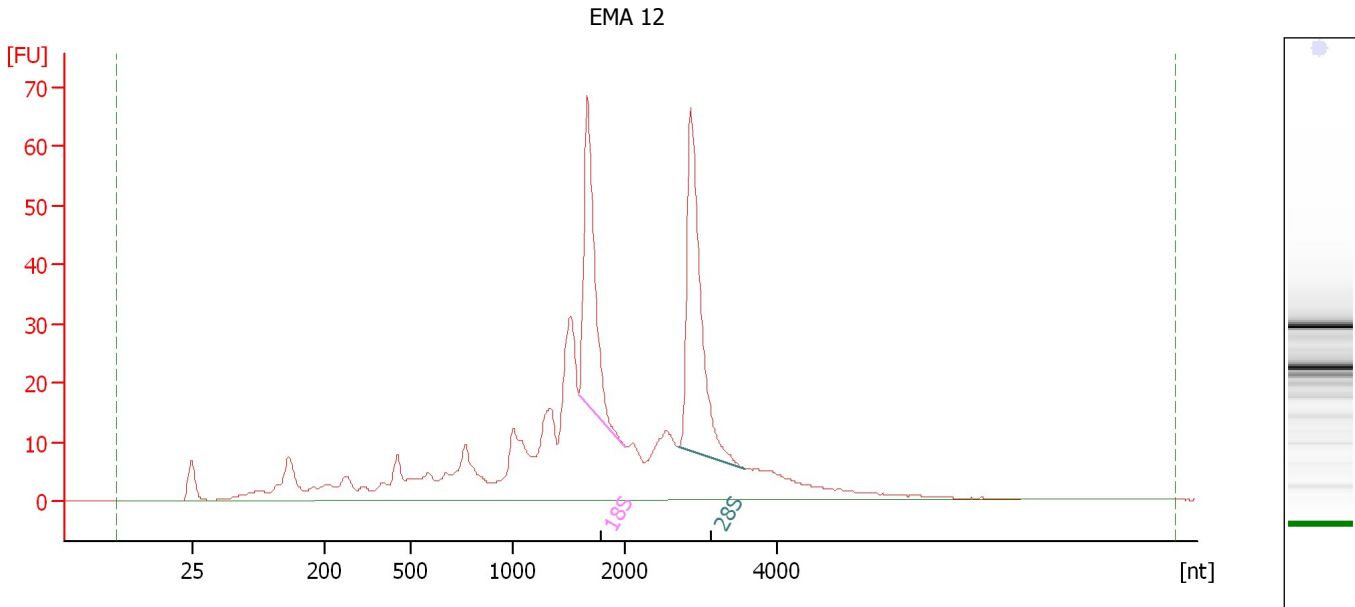
Fragment table for sample 11 : EMA 11

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,609	1,884	65.5	18.8
28S	2,746	3,368	72.3	20.7

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-25\2013-07-25_003.xad

Created: 7/25/2013 12:06:16 PM
 Modified: 7/25/2013 12:33:40 PM

Electropherogram Summary Continued ...



Overall Results for sample 12 : EMA 12

RNA Area:	622.0	RNA Integrity Number (RIN):	6.9 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	479 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.3	Result Flagging Label:	RIN: 6.90

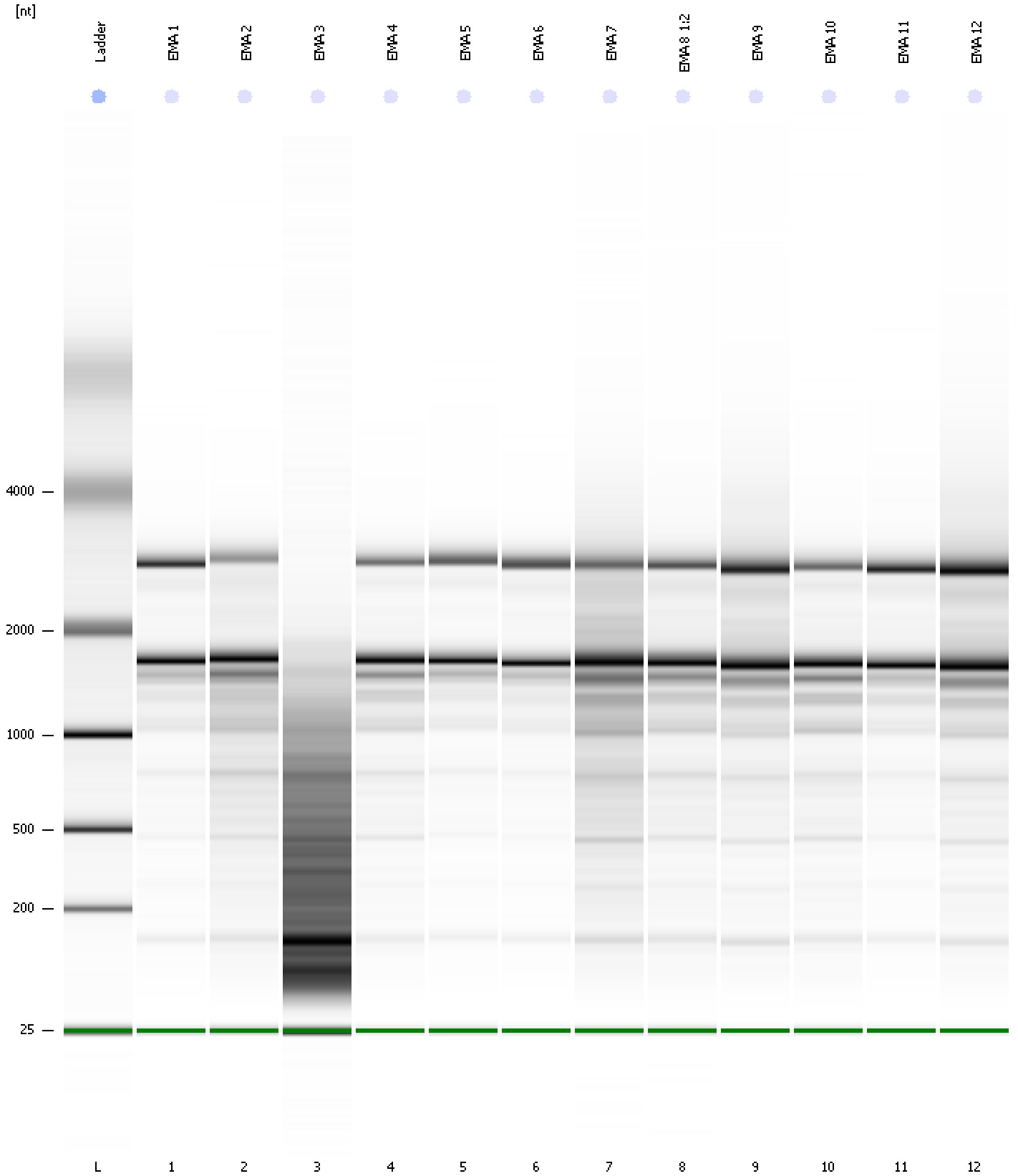
Fragment table for sample 12 : EMA 12

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,592	1,998	71.8	11.5
28S	2,689	3,579	91.0	14.6

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-25\2013-07-25_003.xad

Created: 7/25/2013 12:06:16 PM
Modified: 7/25/2013 12:33:40 PM

Gel Image



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-25\2013-07-25_003.xad

Created: 7/25/2013 12:06:16 PM
 Modified: 7/25/2013 12:33:40 PM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
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Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2013-07-25\2013-07-25_003.xad)		Instrument	Run		7/25/2013 12:06:22 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		7/25/2013 12:06:22 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		7/25/2013 12:06:22 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		7/25/2013 12:06:22 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		7/25/2013 12:06:22 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		7/25/2013 12:06:22 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		7/25/2013 12:06:22 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1