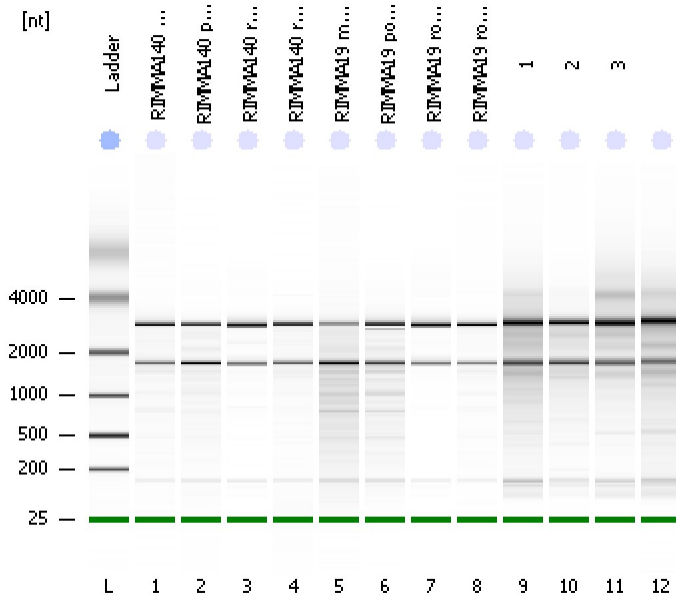


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-04\2014-03-04_002.xad

Created: 3/4/2014 11:20:01 AM
Modified: 3/4/2014 11:44:02 AM

Electrophoresis File Run Summary



Instrument Information:

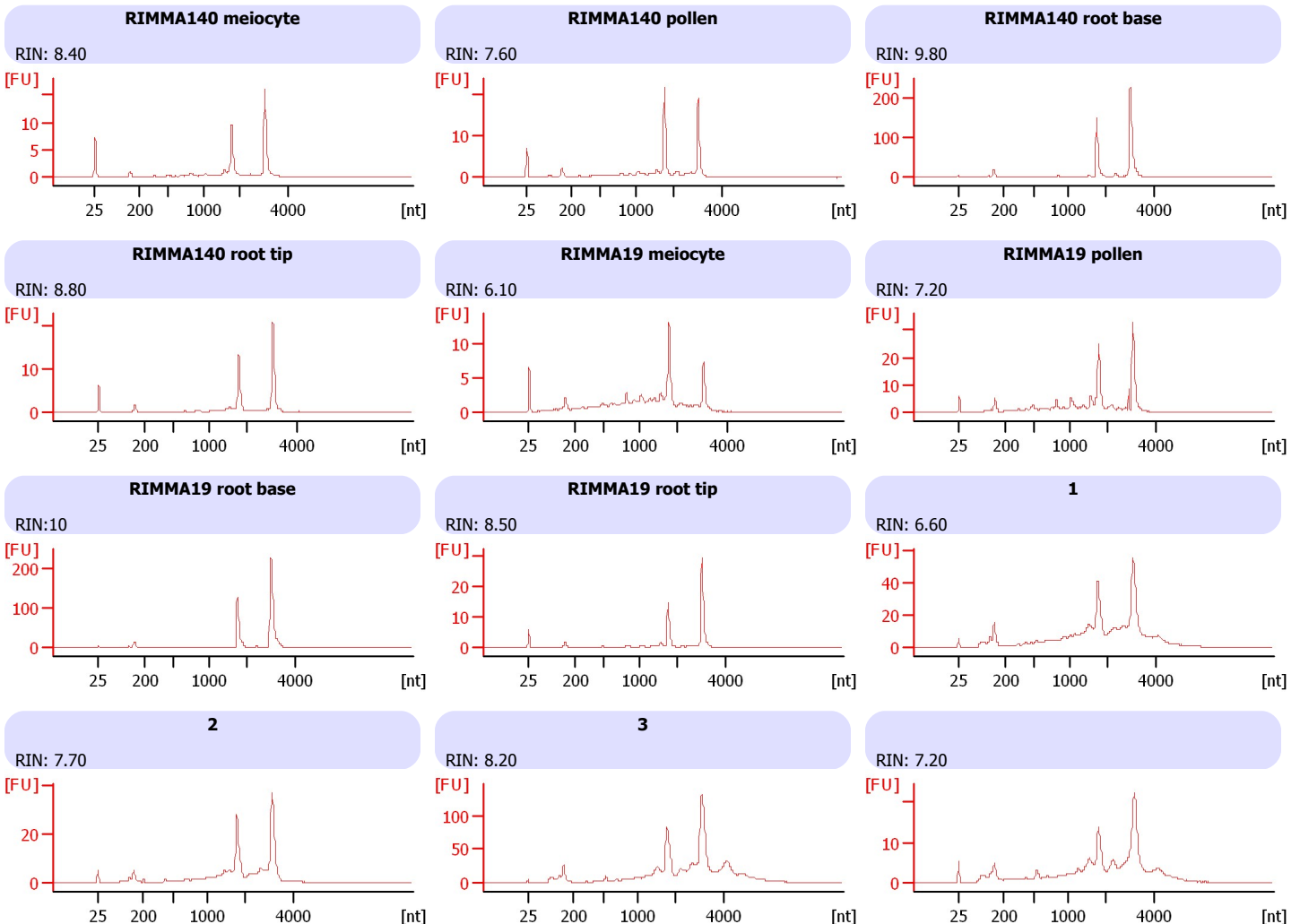
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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)
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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\2014-03-04\2014-03-04_002.xad

Created: 3/4/2014 11:20:01 AM
Modified: 3/4/2014 11:44:02 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
RIMMA140 meiocyte		✓	RIN: 8.40	
RIMMA140 pollen		✓	RIN: 7.60	
RIMMA140 root base		✓	RIN: 9.80	
RIMMA140 root tip		✓	RIN: 8.80	
RIMMA19 meiocyte		✓	RIN: 6.10	
RIMMA19 pollen		✓	RIN: 7.20	
RIMMA19 root base		✓	RIN:10	
RIMMA19 root tip		✓	RIN: 8.50	
1		✓	RIN: 6.60	
2		✓	RIN: 7.70	
3		✓	RIN: 8.20	
		✓	RIN: 7.20	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-04\2014-03-04_002.xad

Created: 3/4/2014 11:20:01 AM
Modified: 3/4/2014 11:44:02 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

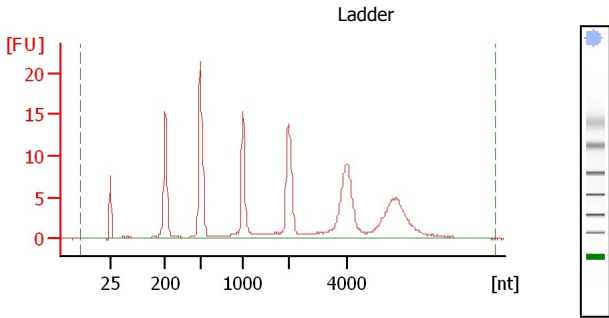
Ladder

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\2014-03-04\2014-03-04_002.xad

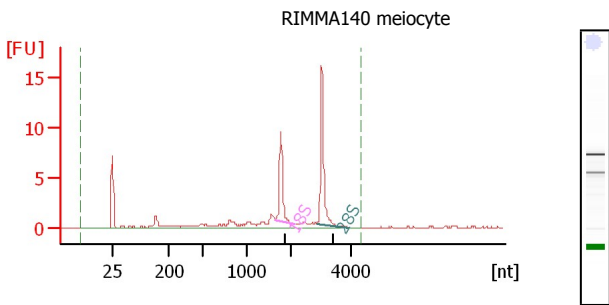
Created: 3/4/2014 11:20:01 AM
 Modified: 3/4/2014 11:44:02 AM

Electropherogram Summary



Overall Results for Ladder

RNA Area: 183.6
 RNA Concentration: 150 ng/μl
 Result Flagging Color:
 Result Flagging Label: All Other Samples



Overall Results for sample 1 : RIMMA140 meicyte

RNA Area: 46.7
 RNA Concentration: 38 ng/μl
 rRNA Ratio [28s / 18s]: 1.7
 RNA Integrity Number (RIN): 8.4 (B.02.08, Anomaly Threshold(s) manually adapted)
 Result Flagging Color:
 Result Flagging Label: RIN: 8.40

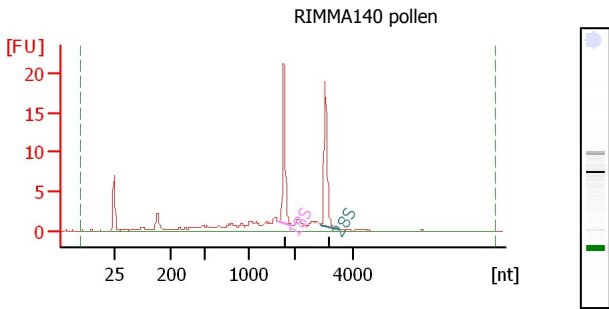
Fragment table for sample 1 : RIMMA140 meicyte

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,635	2,090	8.6	18.4
28S	2,838	3,930	14.2	30.4

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-04\2014-03-04_002.xad

Created: 3/4/2014 11:20:01 AM
 Modified: 3/4/2014 11:44:02 AM

Electropherogram Summary Continued ...

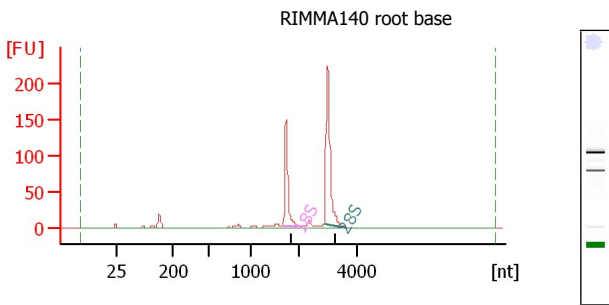


Overall Results for sample 2 : RIMMA140 pollen

RNA Area: 77.2
 RNA Concentration: 63 ng/μl
 rRNA Ratio [28s / 18s]: 0.9
 RNA Integrity Number (RIN): 7.6 (B.02.08)
 Result Flagging Color:
 Result Flagging Label: RIN: 7.60

Fragment table for sample 2 : RIMMA140 pollen

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,641	1,924	17.5	22.7
28S	2,864	3,519	15.7	20.3



Overall Results for sample 3 : RIMMA140 root base

RNA Area: 588.7
 RNA Concentration: 481 ng/μl
 rRNA Ratio [28s / 18s]: 1.7
 RNA Integrity Number (RIN): 9.8 (B.02.08)
 Result Flagging Color:
 Result Flagging Label: RIN: 9.80

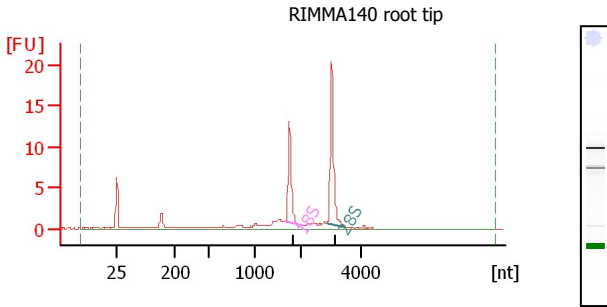
Fragment table for sample 3 : RIMMA140 root base

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,674	2,042	145.5	24.7
28S	2,875	3,652	245.4	41.7

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-04\2014-03-04_002.xad

Created: 3/4/2014 11:20:01 AM
 Modified: 3/4/2014 11:44:02 AM

Electropherogram Summary Continued ...

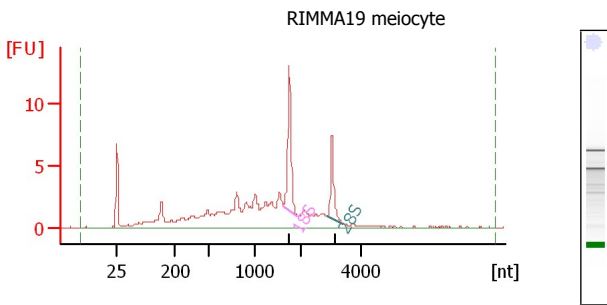


Overall Results for sample 4 : RIMMA140 root tip

RNA Area: 56.1
 RNA Concentration: 46 ng/μl
 rRNA Ratio [28s / 18s]: 1.6
 RNA Integrity Number (RIN): 8.8 (B.02.08)
 Result Flagging Color:
 Result Flagging Label: RIN: 8.80

Fragment table for sample 4 : RIMMA140 root tip

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,643	2,045	11.5	20.6
28S	2,859	3,477	18.1	32.2



Overall Results for sample 5 : RIMMA19 meiocyte

RNA Area: 93.8
 RNA Concentration: 77 ng/μl
 rRNA Ratio [28s / 18s]: 0.5
 RNA Integrity Number (RIN): 6.1 (B.02.08)
 Result Flagging Color:
 Result Flagging Label: RIN: 6.10

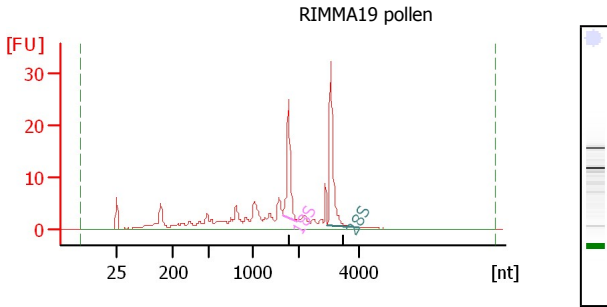
Fragment table for sample 5 : RIMMA19 meiocyte

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,625	1,912	11.4	12.1
28S	2,901	3,392	6.0	6.4

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-04\2014-03-04_002.xad

Created: 3/4/2014 11:20:01 AM
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Electropherogram Summary Continued ...

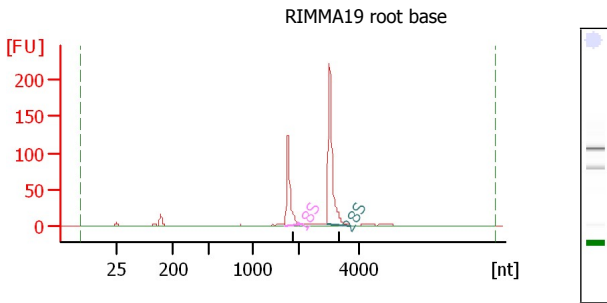


Overall Results for sample 6 : RIMMA19 pollen

RNA Area: 172.5
 RNA Concentration: 141 ng/µl
 rRNA Ratio [28s / 18s]: 1.4
 RNA Integrity Number (RIN): 7.2 (B.02.08)
 Result Flagging Color:
 Result Flagging Label: RIN: 7.20

Fragment table for sample 6 : RIMMA19 pollen

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,632	1,947	23.6	13.7
28S	2,930	3,957	32.5	18.9



Overall Results for sample 7 : RIMMA19 root base

RNA Area: 529.9
 RNA Concentration: 433 ng/µl
 rRNA Ratio [28s / 18s]: 1.9
 RNA Integrity Number (RIN): 10 (B.02.08)
 Result Flagging Color:
 Result Flagging Label: RIN:10

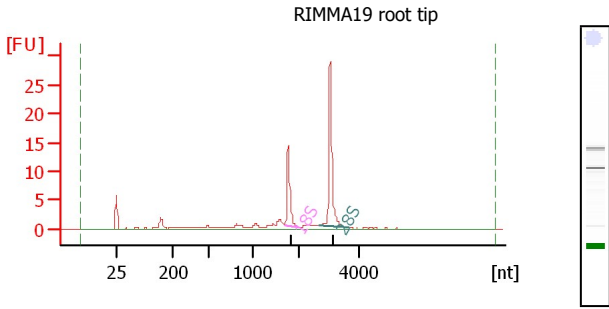
Fragment table for sample 7 : RIMMA19 root base

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,677	2,114	132.9	25.1
28S	2,888	3,732	253.1	47.8

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-04\2014-03-04_002.xad

Created: 3/4/2014 11:20:01 AM
 Modified: 3/4/2014 11:44:02 AM

Electropherogram Summary Continued ...

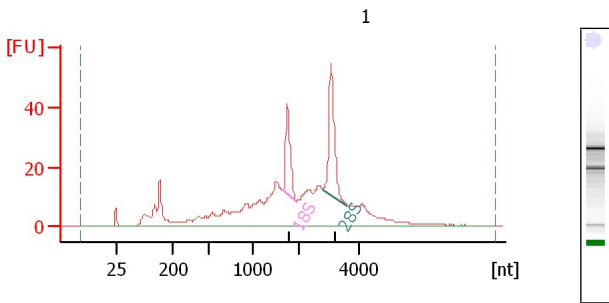


Overall Results for sample 8 : RIMMA19 root tip

RNA Area: 69.1
 RNA Concentration: 56 ng/μl
 rRNA Ratio [28s / 18s]: 2.1
 RNA Integrity Number (RIN): 8.5 (B.02.08)
 Result Flagging Color:
 Result Flagging Label: RIN: 8.50

Fragment table for sample 8 : RIMMA19 root tip

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,677	1,965	12.4	17.9
28S	2,621	3,661	26.2	38.0



Overall Results for sample 9 : 1

RNA Area: 581.6
 RNA Concentration: 475 ng/μl
 rRNA Ratio [28s / 18s]: 1.6
 RNA Integrity Number (RIN): 6.6 (B.02.08)
 Result Flagging Color:
 Result Flagging Label: RIN: 6.60

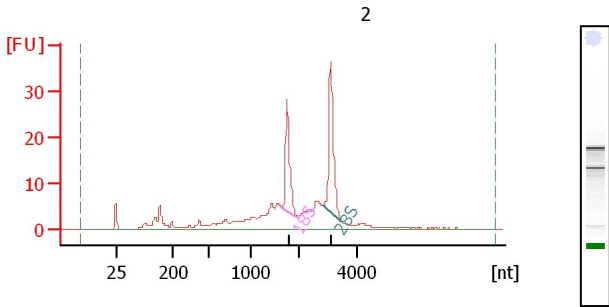
Fragment table for sample 9 : 1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,649	1,946	43.4	7.5
28S	2,790	3,636	68.3	11.7

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-04\2014-03-04_002.xad

Created: 3/4/2014 11:20:01 AM
 Modified: 3/4/2014 11:44:02 AM

Electropherogram Summary Continued ...

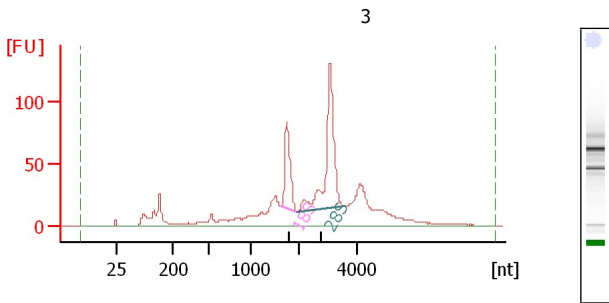


Overall Results for sample 10 : 2

RNA Area: 223.2
 RNA Concentration: 182 ng/µl
 rRNA Ratio [28s / 18s]: 1.4
 RNA Integrity Number (RIN): 7.7 (B.02.08)
 Result Flagging Color:
 Result Flagging Label: RIN: 7.70

Fragment table for sample 10 : 2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,638	1,963	30.3	13.6
28S	2,847	3,468	42.5	19.0



Overall Results for sample 11 : 3

RNA Area: 1,162.3
 RNA Concentration: 949 ng/µl
 rRNA Ratio [28s / 18s]: 2.3
 RNA Integrity Number (RIN): 8.2 (B.02.08)
 Result Flagging Color:
 Result Flagging Label: RIN: 8.20

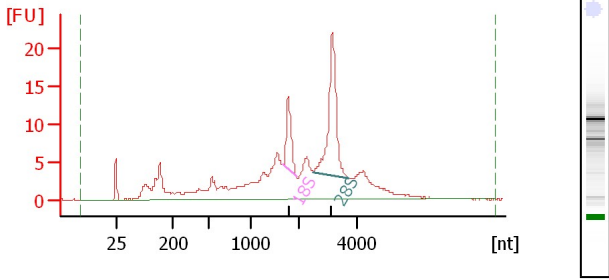
Fragment table for sample 11 : 3

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,629	1,954	114.8	9.9
28S	1,972	3,596	262.0	22.5

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-04\2014-03-04_002.xad

Created: 3/4/2014 11:20:01 AM
Modified: 3/4/2014 11:44:02 AM

Electropherogram Summary Continued ...



Overall Results for sample 12 :

RNA Area: 235.0
RNA Concentration: 192 ng/ul
rRNA Ratio [28s / 18s]: 2.7
RNA Integrity Number (RIN): 7.2 (B.02.08)
Result Flagging Color:
Result Flagging Label: RIN: 7.20

Fragment table for sample 12 :

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,656	1,972	14.6	6.2
28S	2,494	3,694	40.1	17.1

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-04\2014-03-04_002.xad

Created: 3/4/2014 11:20:01 AM
Modified: 3/4/2014 11:44:02 AM

Gel Image

